Pioneer

2014 Pioneer AV Receivers

Audio Technologies
- MCACC Auto Room Tuning
  - Phase Control
- Advanced MCACC Auto Room Tuning
  - Auto Phase Control Plus
  - Speaker Polarity Check
  - Standing Wave Control
  - Subwoofer EQ
- PQLS with HDMI (Bit-stream/Multi Surround/2ch Audio)
- Advanced Sound Retriever
- Auto Sound Retriever
- Auto Sound Retriever for ARC
- Sound Retriever AIR
- Sound Retriever Link
- Auto Level Control
- Hi-bit24 Audio Processing
- SABRE™ Premier Audio DAC

Video Technologies
- Ultra HD (4K/60p) Upscaling
- Ultra HD (4K/60p) Pass-Through
- Stream Smoother
- Stream Smoother Link
- Advanced Video Adjust
- Highly-Precise I/P Conversion
- Digital Video Converter
- Triple HD Video Noise Reduction
- Deep Color
- "x.v.Color"

Audio Formats & Licenses
- Dolby TrueHD
- Dolby TrueHD Loudness Management
- DTS-HD Master Audio
- DTS-HD
- DTS Neo:X | 7.1
- Hi-Res Audio File Playback via USB/Network
- Multi-Channel Audio File Playback via USB/Network
- Various Music File Playback via USB/Network/HDMI
- Variable File Play Action
- Gapless Playback

Sophisticated Surround System
- Various Speaker Settings
- Wide Surround
- Dolby Pro Logic IIz
- Virtual Speakers
- Virtual Depth
- Advanced Surround Modes
- Front Stage Surround Advance

Connectivity
- HDMI® (4K@60, 3D, ARC)
- Made for iPod and iPhone
- iPod Digital Transmission via Front USB
- Android™ Audio/Video Playback with MHL™
- Front USB Input

Network Features
- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Compatible with Windows® 8.1
- Pandora® Internet Radio
- Spotify® Digital Music-Streaming Service Ready
- Roku Ready®
- Internet Radio (vTuner)

Advanced Control
- Ready for iControlAV5 App
- *Bluetooth* Ready
- Built-in AVNavigator
- AVNavigator for iPad
- Wireless LAN Converter Ready
- Powered HDMI ZONE Out (Powered HDZONE)
- Multi-Zone
- Standby Pass-Through without CEC
- Auto Power Down
- Power Save for HDMI Standby Through

Applicable models displayed in icons:

1124 ··········VSX-1124-K
1024 ··········VSX-1024-K
824 ··········VSX-824-K
524 ··········VSX-524-K

For Canada only

1129 ··········VSX-1129-K
1029 ··········VSX-1029-K

For North America

* New features in blue

MCACC Auto Room Tuning 1024 824 524 1029

Create the optimum acoustic environment with Pioneer's MCACC (Multi-Channel Acoustic Calibration System), developed with the expertise of professional recording studios. The system — complete with custom microphone — automatically compensates for differences in speaker size, level and distance, and equalizes response.

Multi-channel Acoustic Calibration System

Phase Control

When amplifying multi-channel audio signals, receivers use a Low Pass Filter (LPF) to process low-frequency signals for subwoofer output. This causes "phase lag" — a delay of approximately 5 msec — of the low-frequency signals compared to the main channel signals. As a result, the delayed bass makes the sound lack synchronization. Pioneer's Phase Control technology effectively eliminates phase lag and significantly improves the multi-channel sound without any extra operation.

Advanced MCACC Auto Room Tuning 1124 1129

The Advanced MCACC uses a 3D calibration method with even more precise measurements by including the time axis. The AV receivers also feature a speaker polarity check for detecting misconnected cables, and a reverb measurement display for showing before/after calibration results. The system automatically measures crossover frequency — much easier than the previous manual setting — and also lets you check the measured data by MCACC application in the AVNavigator. The subwoofer EQ feature has been newly added, for auto or manual EQ adjustments.

Auto Phase Control Plus

During Blu-ray Disc/CD playback, Auto Phase Control Plus makes real-time analysis of the phase difference between the LFE (low frequency effect) and the main signals, and automatically compensates the gap. Elimination of phase lag enhances strong bass and clear high-frequency sound — especially effective for audio content such as live performance and music video clips.

Auto Phase Control Plus

* Effectiveness depends on content

Speaker Polarity Check

The Advanced MCACC will check the speaker polarity for proper connection. "Reverse Phase" will be displayed on the GUI screen if the speaker's wiring (+ and -) is inverted.

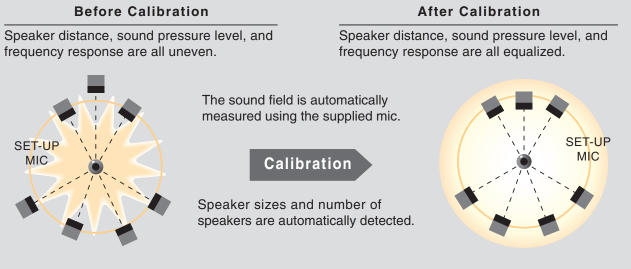
Standing Wave Control

Acoustic standing waves occur when the sound waves from your speaker resonate with those reflected off the walls. Depending on the speaker placement, your listening position or the shape of the room, standing waves have a negative effect on the overall sound, especially in certain lower frequencies. Standing Wave Control effectively decreases resonance and prevents inaccurate EQ-setting calibration.

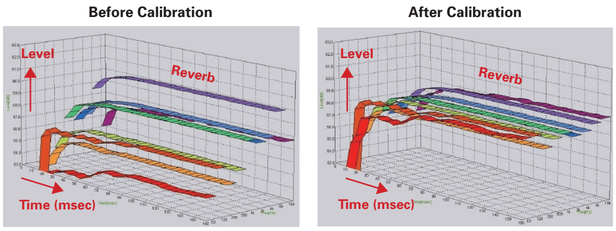
Subwoofer EQ

This new EQ feature allows you to adjust the LFE tone. For Auto MCACC, the subwoofer EQ is automatically adjusted with EQ type ALL CH ADJ, while manual adjustment is available with EQ type SYMMETRY and FRONT ALIGN. As with other EQ, the manual adjustment can be done on the AV receiver's GUI.

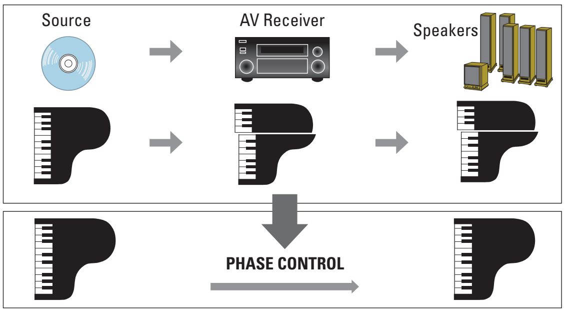
Acoustic Calibration by MCACC


Before Calibration
Speaker distance, sound pressure level, and frequency response are all uneven.
After Calibration
Speaker distance, sound pressure level, and frequency response are all equalized.
SET-UP MIC
The sound field is automatically measured using the supplied mic.
Calibration
Speaker sizes and number of speakers are automatically detected.
SET-UP MIC

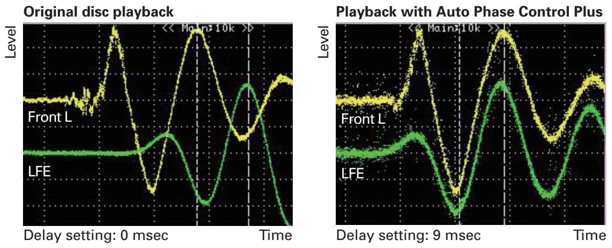
MCACC Reverberation Characteristics



The "Phase Control" Compensates for the Delay of Low-Frequency Sound

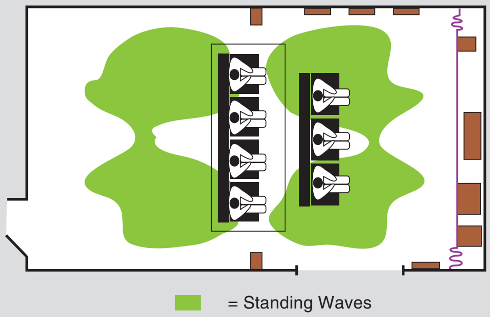

Source
AV Receiver
Speakers
PHASE CONTROL

Effect of Auto Phase Control Plus (data comparison)



Superior sound provided by compensating the lag in the subwoofer channel on the disc.

Standing Wave in a Typical Listening Room


🟩 = Standing Waves

PQLS with HDMI

1124 **1129**

As shown on right, jitter causes clock timing error and distorts the D/A conversion timing. This is one of the biggest factors for sound degradation during digital transmission, such as decreased sound localization, and happens even with HDMI connection.

On the Blu-ray Disc player, the audio clock goes through algebraic transformation based on the video pixel clock, then transferred. On the AV receiver, the audio reference clock is regenerated using PLL in the algebraic value which came with the video pixel clock. So the audio reference clock is influenced by both the HDMI receiving chip's PLL performance and the video pixel clock, and can not avoid being regenerated with some jitter.

PQLS Bit-stream

PQLS Multi-Surround

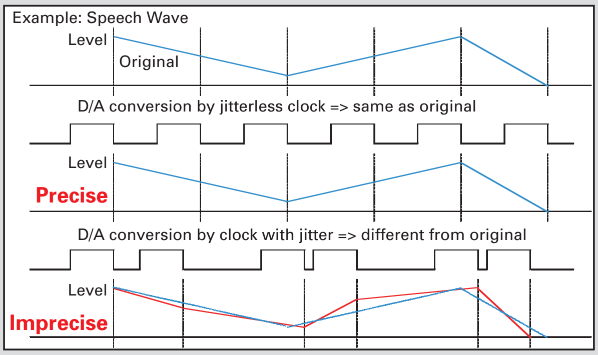
PQLS 2ch Audio

Pioneer's Precision Quartz Lock System (PQLS) was developed as a solution to this problem. PQLS processes D/A conversion using the high-precision crystal oscillator clock instead of the audio clock regenerated in the HDMI receiving chip, and is free from jitter created during HDMI transmission.

The data from the Blu-ray Disc player is temporarily buffered in the AV receiver's memory, then sequentially reproduced in sync with the high-precision crystal oscillator clock to prevent flaw. Additionally, the Blu-ray Disc player's data transmission clock is controlled by signals from the AV receiver to prevent overflow or underflow in the buffer.

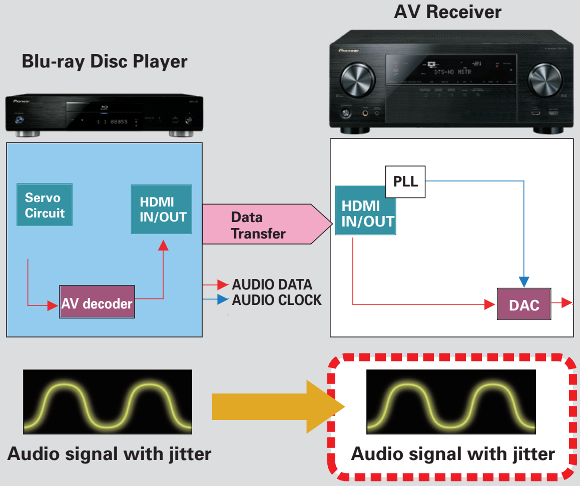
Three types of PQLS are available depending on the connected Blu-ray Disc player (see compatibility chart on right).
- PQLS 2ch Audio: For CD playback.
- PQLS Multi-Surround: For CD/DVD/BD playback, when the Blu-ray Disc player output is set to LPCM.
- PQLS Bit-stream: For CD/DVD/BD playback, all the time.
  For PQLS to be effective, Control with HDMI needs to be on, and PQLS setting needs to be set to Auto.

Sound Degradation from Jitter

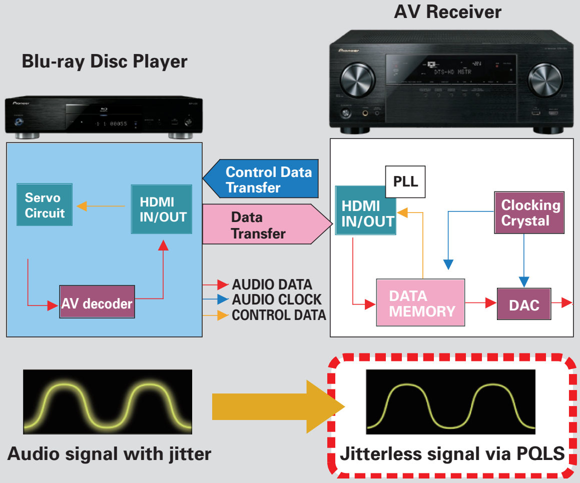

Example: Speech Wave
Level
Original
D/A conversion by jitterless clock => same as original
Level
Precise
D/A conversion by clock with jitter => different from original
Level
Imprecise

Jitter effects on D/A conversion prevents accurate signal conversion

Conventional HDMI Transmission


AV Receiver
Blu-ray Disc Player
Servo Circuit
HDMI IN/OUT
Data Transfer
PLL
HDMI IN/OUT
AV decoder
AUDIO DATA
AUDIO CLOCK
DAC
Audio signal with jitter
Audio signal with jitter

Jitterless Transmission (PQLS)


AV Receiver
Blu-ray Disc Player
Control Data Transfer
Servo Circuit
HDMI IN/OUT
Data Transfer
PLL
HDMI IN/OUT
Clocking Crystal
AV decoder
AUDIO DATA
AUDIO CLOCK
CONTROL DATA
DATA MEMORY
DAC
Audio signal with jitter
Jitterless signal via PQLS

PQLS Backward Compatibility

Blu-ray Disc Players	AV Receivers
	VSX-1124-K/VSX-1129-K
BDP-05FD	2ch
BDP-09FD	2ch
BDP-320	2ch
BDP-23FD	Multi-Surround/2ch
BDP-33FD/BDP-31FD/BDP-330 BDP-43FD/BDP-41FD/BDP-430 BDP-53FD/BDP-51FD/BDP-440 BDP-62FD	Bit-stream/Multi-Surround/2ch

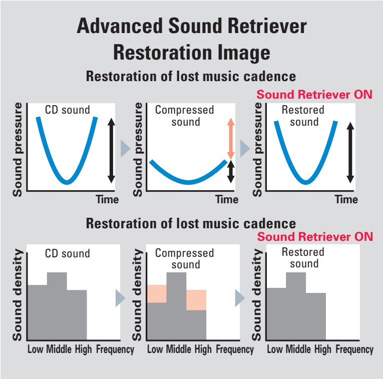
Advanced Sound Retriever

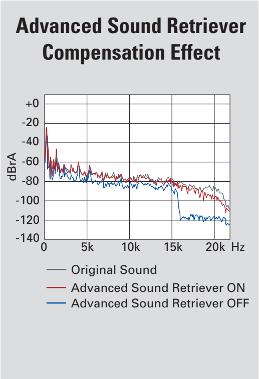
1124 **1024** **824** **524** **1129** **1029**

Pioneer's AV receivers feature the Advanced Sound Retriever, which restores the output of compressed audio — such as WMA, MPEG-4 AAC, and MP3 — to the level of CD sound. The Advanced Sound Retriever creates new signals to restore the minor details left out during the compression process.

Multi-Channel Advanced Sound Retriever **1124** **1129**

Advanced Sound Retriever for multi-surround sound is compatible with DVD soundtracks featuring Dolby Digital or DTS.

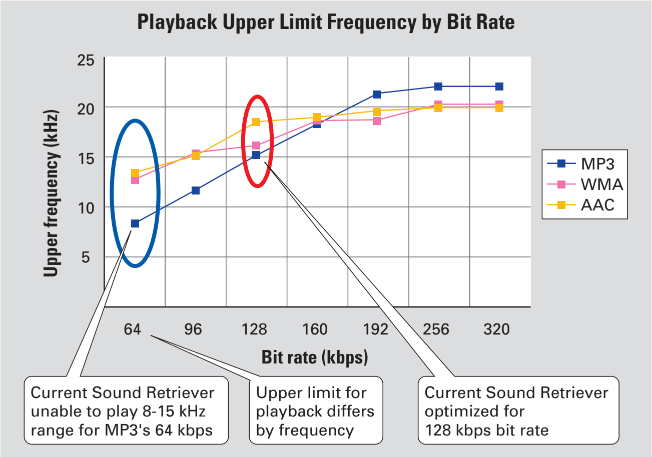

Advanced Sound Retriever Restoration Image


Advanced Sound Retriever Compensation Effect

Auto Sound Retriever

1124 **1129**

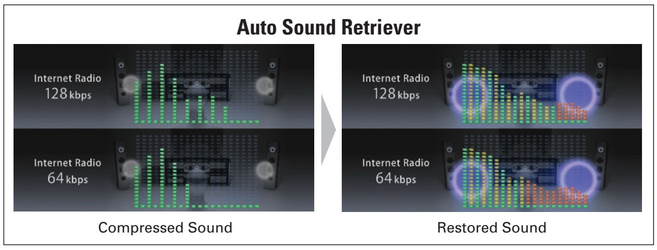
Since the Advanced Sound Retriever is designed with an algorithm optimized to process 128 kbps signal, it did not work well with 8-15 kHz high frequencies in 64 kbps signal, which is the bit rate for quite a few internet stations. The newly developed Auto Sound Retriever automatically determines the audio signal's bit rate, and interpolates the data lost during compression. It is especially effective for improving the sound quality of low bit-rate content — an ideal feature when switching between internet radio stations with different bit-rates.


Playback Upper Limit Frequency by Bit Rate

Current Sound Retriever unable to play 8-15 kHz range for MP3's 64 kbps

Upper limit for playback differs by frequency

Current Sound Retriever optimized for 128 kbps bit rate


Auto Sound Retriever

Compressed Sound
Restored Sound

Auto Sound Retriever for ARC

1124 **1129**

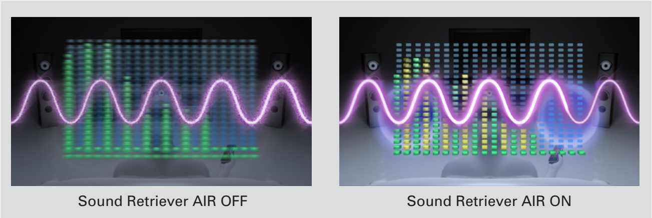
With digital broadcast, although images are displayed in high-definition, the audio quality is not as high since they are compressed with various bit rates. By applying Pioneer's Auto Sound Retriever feature to TV broadcast signals, it adjusts the effects according to the bit rate transferred via HDMI's ARC (Audio Return Channel), letting you enjoy digital TV broadcast in high-definition sound via Pioneer AV receiver.

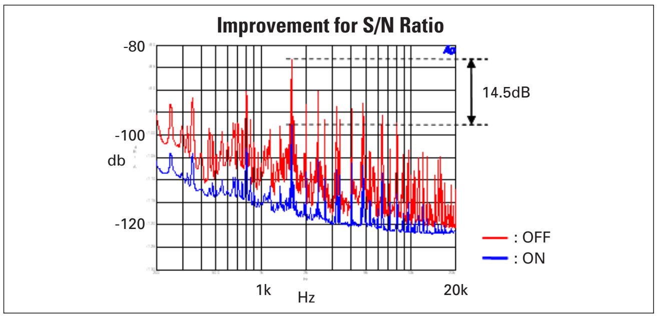
Sound Retriever AIR

1124 **1024** **824** **1129** **1029**

When streaming music via *Bluetooth**, the sound quality often suffers due to the compression process. Pioneer's Sound Retriever AIR is the world's first technology for improving the quality of *Bluetooth* transmitted sound. It restores the music cadence lost through compression, and also reduces the noise generated by *Bluetooth* transmission for a better S/N ratio.

* AS-BT200 optional adapter required


Sound Retriever AIR OFF
Sound Retriever AIR ON


Improvement for S/N Ratio

Sound Retriever Link

1124 **1129**

Through HDMI connection, Sound Retriever Link detects the original audio file information such as source type, codec, and bit rate played on a compatible Pioneer Blu-ray Disc player, and automatically switches to the most suitable Sound Retriever. So there is no need to switch on/off according to the source. Advanced Sound Retriever is selected for Blu-ray Disc and DVD sources, and Auto Sound Retriever is selected for other sources.

* Advanced Sound Retriever is selected for all sources when connected with a non-compatible Blu-ray Disc player.

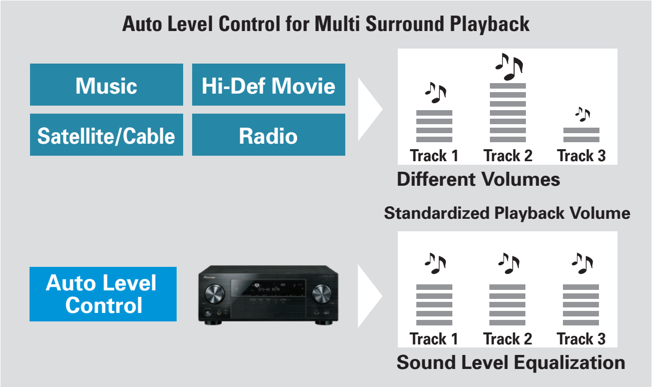
Auto Level Control

1124 **1024** **824** **524** **1129** **1029**

Auto Level Control equalizes volume level differences between tracks when playing music from an iPod or other sources.

Multi-Channel Auto Level Control **1124** **1129**

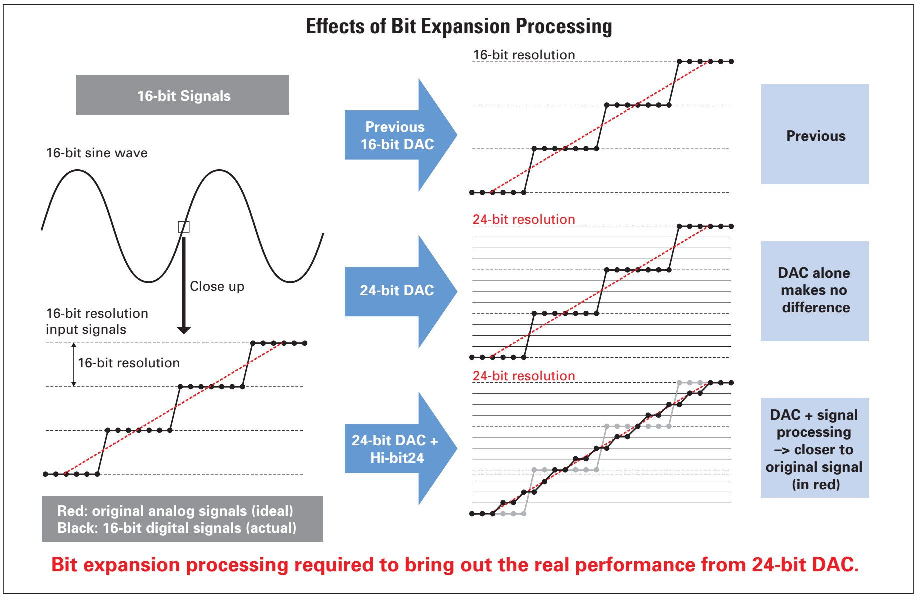
Multi-channel Auto Level Control supports surround sound playback, maintaining a consistent level and clear audio. The function adjusts low and high frequency sounds, dialogs, surround effects etc. that are difficult to hear in low volume, to optimal levels — an ideal feature for listening at night without disturbing others.


Auto Level Control for Multi Surround Playback
Music
Hi-Def Movie
Satellite/Cable
Radio
Track 1
Track 2
Track 3
Different Volumes
Standardized Playback Volume
Auto Level Control
Track 1
Track 2
Track 3
Sound Level Equalization

Hi-bit24 Audio Processing

1124 **1129**

This technology works to create undistorted sound, bringing out the best in the 24-bit DAC. The 24-bit DAC hardware alone does not reproduce better sound. Maximum performance is gained by applying the Hi-bit24 Audio Signal Processing to expand signal resolution, creating more detailed, smooth sound, closer to the original analog signal. Hi-bit24 also increases the sound pressure for a tactile listening experience, and the more channels you have, the more impressive it becomes. It is effective for multi-channel content on CD/DVD, PC files less than 24-bit and works with any disc player.


Effects of Bit Expansion Processing
16-bit Signals
16-bit sine wave
Close up
16-bit resolution input signals
16-bit resolution
Red: original analog signals (ideal)
Black: 16-bit digital signals (actual)
Previous 16-bit DAC
16-bit resolution
Previous
24-bit DAC
24-bit resolution
DAC alone makes no difference
24-bit DAC + Hi-bit24
24-bit resolution
DAC + signal processing –> closer to original signal (in red)
Bit expansion processing required to bring out the real performance from 24-bit DAC.

SABRE™ Premier Audio DAC

1124 **1129**

The highly acclaimed 24-bit ES9006S SABRE Premier Audio DAC for 7.2ch is newly adopted to deliver exceptional digital sound. It features unprecedented dynamic range of up to 120 dB and low distortion, offering clear audio reproduction, free of jitter.

SABRE™ Premier Audio DAC (ES9006S)

Ultra HD (4K/60p) Upscaling

1124 **1129**

Ultra HD (4K), usually referred to as 4K, is the next-generation ultra-high-resolution standard with 3,840 x 2,160 pixels or 4,096 x 2,160 pixels — four times the current HD 1080p standard. With Marvell's Qdeo™ video processing technology, the AV receiver upscales standard video sources into high-resolution 4K image (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit), for viewing on a 4K-compatible display. The AV receivers support 18 Gbps bandwidth, allowing reproduction of 4:4:4 color format, and are ready to bring out the best from the future generation Ultra HD devices with 18 Gbps transfer capabilities.

4K/60p Ultra HD Upscaling

Ultra HD (4K/60p) Pass-Through

1124 **1024** **824** **524** **1129** **1029**

The feature lets you take advantage of the highest-quality video source, by passing through 4K signals (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit) for viewing on a compatible display.

4K/60p Ultra HD Pass-through

Stream Smoother

1124 **1129**

Stream Smoother is a video adjustment feature for watching network content on your home theater. It reduces block noise and mosquito noise on low bit rate video content such as YouTube™, offering finer and clearer images.

Stream Smoother Link

1124 **1129**

Through HDMI connection, Stream Smoother Link detects the source type playing on a compatible Pioneer Blu-ray Disc player, and automatically switches Stream Smoother on or off accordingly. So there is no need for manual switching depending on the source. Stream Smoother is turned off for Blu-ray Disc and DVD sources, and turned on for network content to enrich low bit rate video quality.

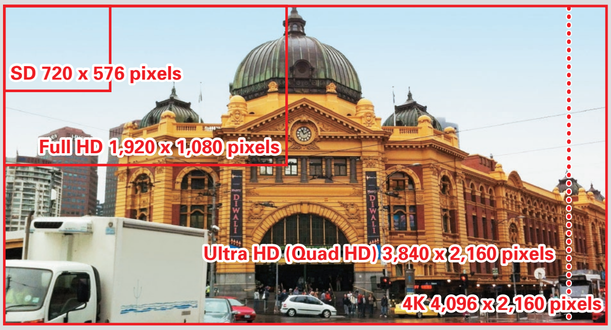
*** When connected with a non-compatible Blu-ray Disc player and AUTO is selected, Stream Smoother is turned off for all sources.**

What's 4K?

Next generation high resolution video signal standard with 4 times Full HD resolution.

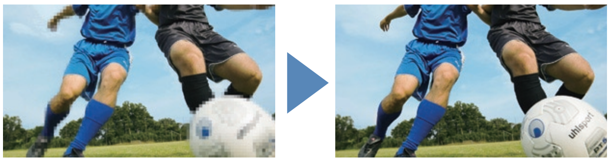
Compatible Resolution

- 3,840 x 2,160 pixels, defined by ITU (International Telecommunication Union) mainly for broadcasting
- 4,096 x 2,160 pixels, defined by DCI (Digital Cinema Initiatives) for Digital Cinema


SD 720 x 576 pixels
Full HD 1,920 x 1,080 pixels
Ultra HD (Quad HD) 3,840 x 2,160 pixels
4K 4,096 x 2,160 pixels

Difference in Resolution by Chroma Format

Chroma Format	Luma Resolution	Chroma Resolution	
		Horizontal	Vertical
4:4:4	Full	Full	Full
4:2:2	Full	1/2	Full
4:2:0	Full	1/2	1/2



Stream Smoother OFF

Stream Smoother ON

* For illustration purpose only

Advanced Video Adjust

1124 **1129**

Advanced Video Adjust is a new feature which optimizes video signals according to the connected display type, such as plasma display panel, LCD, or projector. Additionally, it automatically adjusts the picture image for the distance of your viewing position, based on MCACC measurement data.

Highly-Precise I/P Conversion

1124 **1129**

Merely having a high-grade video processor does not guarantee a quality picture — a fine-tuned setup makes the difference. Pioneer engineers have performed rigorous testing to achieve an optimum image from almost any content. This highly-precise conversion is effective for HD as well as SD sources.

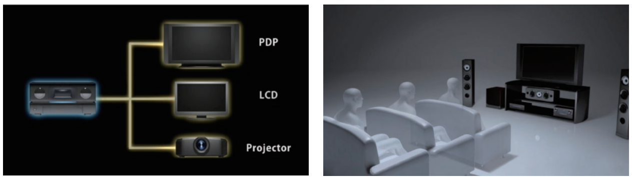
PureCinema I/P Conversion

For film content, PureCinema I/P Conversion faithfully reproduces the original material.

Motion Adaptive I/P Conversion

For video content, Motion Adaptive I/P Conversion processes moving images by eliminating conversion errors or noise generation, to deliver high-quality pictures.

Optimized Image with Advanced Video Adjust



By Display Type By Distance

Advanced Video Adjust

• PDP Mode 1

Through PDP Mode 1

Adjusts for optimum image with more detail and less noise

• PDP Mode 2

Through PDP Mode 2

Adjusts for a more natural image

• LCD Mode

Through LCD Mode

Adjusts LCD's washed out black for optimum image

• Front Projector Mode

Through Front Projector Mode

Provides a sharp and vivid image suited for a front projector

* For illustration purpose only

Motion Adaptive I/P Conversion

E116 YU
E116 YU

Conventional I/P Conversion Motion Adaptive I/P Conversion

* For illustration purpose only

Digital Video Converter

1124 **1129**

Composite or component input video signals can be converted for HDMI output to view on a compatible display.

Triple HD Video Noise Reduction

1124 **1129**

The AV receivers feature three separate noise reduction circuits for enhanced video performance.

- Component Frame Noise Reduction (YNR/CNR): reduces Gaussian noise without blurring the picture
- Block Noise Reduction: reduces block noise found in flat areas
- Mosquito Noise Reduction: reduces noise along the outline of images

The Pioneer-exclusive advanced PureCinema I/P Converter also helps to remove distracting lines during playback.

Deep Color

1124 **1024** **824** **524** **1129** **1029**

Pioneer AV receivers support 36-bit Deep Color, featuring smooth gradation steps with more accurate precision of brightness and color information, resulting in superbly detailed, natural color.

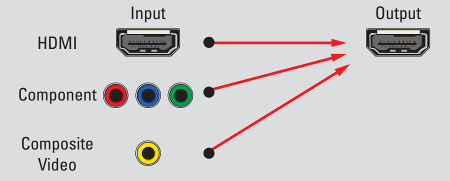
"x.v.Color"

1124 **1024** **824** **524** **1129** **1029**

Pioneer AV receivers support "x.v.Color", which almost doubles the range of colors (known as the "gamut") that can be accurately captured, and reproduced on a compatible display, thereby more closely matching the natural characteristics of the human eye.

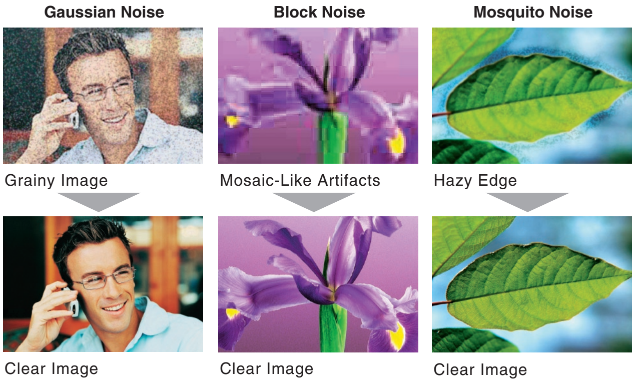
*"x.v.Color" only available for playback of discs recorded with AVCHD devices.
"x.v.Color" and the" x.v.Color" logo are trademarks of Sony Corporation.

Digital Video Converter with HDMI Output


Input
Output
HDMI
Component
Composite Video

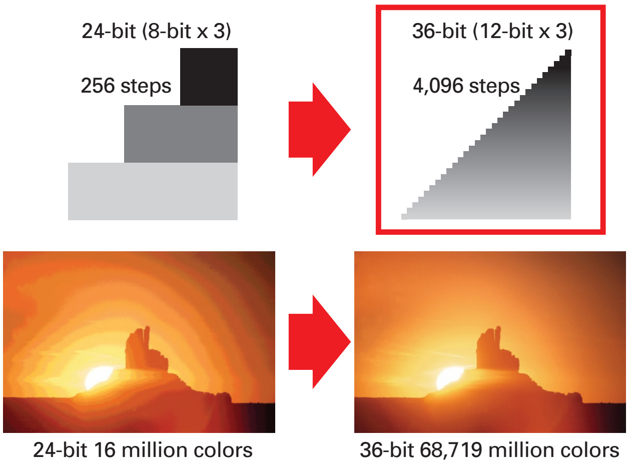
* TV audio/video output via AV receiver by HDMI connection may not be available depending on the source device.

Triple HD Video Noise Reductions


Gaussian Noise
Block Noise
Mosquito Noise
Grainy Image
Mosaic-Like Artifacts
Hazy Edge
Clear Image
Clear Image
Clear Image

* For illustration purpose only

36-bit Deep Color Image


24-bit (8-bit x 3)
256 steps
36-bit (12-bit x 3)
4,096 steps
24-bit 16 million colors
36-bit 68,719 million colors

Smoother Images

* For illustration purpose only

Dolby TrueHD

1124 1024 824 524 1129 1029

Dolby TrueHD delivers sound that is on par with the original soundtrack, letting you experience the world of true high-definition entertainment from Blu-ray Discs. With lossless encoding in up to 18 Mbps bit rate, Dolby TrueHD creates a synergy with high-definition video to offer you a home theater experience like never before.

Dolby TrueHD Loudness Management

1124 1129

Dolby TrueHD Loudness Management frees you from annoying volume fluctuations that often occur when switching channels, programs, or input sources, by maintaining a consistent loudness-level. The function turns on/off during content playback, activating or deactivating post processing within the decoder. When the function is turned off, audio is delivered in a lossless mode.

DTS-HD Master Audio

1124 1024 1129 1029

With DTS-HD Master Audio, you can enjoy sound that is bit-for-bit identical to the studio master, at 192 kHz/24-bit for 5.1 channels and 96 kHz/24-bit for 7.1 channels. DTS-HD Master Audio delivers audio at extremely high variable bit rates of 24.5 Mbps, which far exceeds standard DVDs. DTS-HD Master Audio offers movies and music in the pure, original state as intended by the artists.

DTS-HD

824 524

DTS-HD technology provides decoding of the highest quality audio streams for HDMI enabled devices. You can enjoy up to 96 kHz/24-bit 7.1-channel surround sound, including lossless Blu-ray quality HD audio.

DTS Neo:X | 7.1

1124 1129

The AV receivers feature DTS Neo:X, the world's first 11.1ch surround sound format. Using 7.1ch soundtracks, the format creates additional height and wide channels, and produces an enveloping a semi-spherical sound field for a lifelike 3D sound for music, games, or movies.

Hi-Res Audio File Playback via USB/Network

1124 1024 824 1129 1029

In addition to 2.8 MHz DSD (Direct Stream Digital) file playback* via USB, the Pioneer AV receivers are the first to realize DSD streaming** via network. Up to 192 kHz/24-bit WAV, FLAC, AIFF, and Apple Lossless files can also be played via USB/network.

* VSX-1124-K/VSX-1129-K only for both USB and network
** DLNA compatible server or NAS capable of DSD streaming required

Multi-channel Audio Playback via USB/Network

1124 1129

Pioneer's AV receivers are the first in the industry to realize multi-channel (5.0ch/5.1ch) playback of high-resolution audio formats. You can fully enjoy recordings of live concerts and classical music in 96 kHz/24-bit WAV or FLAC files via DLNA or USB.

High Definition Audio Formats

DTS-HD Master Audio and Dolby TrueHD provide sound that is bit-for-bit identical to the studio master, delivering sound at extremely high variable bit rates far exceeding standard DVDs.

Comparison of High Definition Audio Formats

Compressed		Uncompressed
Lossless	Lossy	
Dolby TrueHD	Dolby Digital Plus	Linear PCM
DOLBY TRUEHD	DOLBY DIGITAL PLUS	Uncompressed 48 kHz/16-bit audio format similar to CD, but with higher sampling frequencies and quantization. No decoding required.
DTS-HD Master Audio dts-HD Master Audio	DTS-HD High Resolution Audio dts-HD High Res Audio	

Various Music File Playback via USB/Network/HDMI

1124 1024 824 1129 1029

Various music files can be played back via USB or HDMI (SACD). With DLNA and AirPlay features, the AV receivers let you stream audio from compatible devices. Through a DLNA app, you can now stream WMA, MP3, AAC, WAV, FLAC, AIFF, and Apple Lossless audio files stored on your DMS.**

Playable Formats

Format	Extension	Stream		VSX-1124-K/VSX-1024-K/VSX-824-K/VSX-1129-K/VSX-1029-K
via USB/Network				
MP3*	.mp3	MPEG-1Audio Layer-3	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	8-320 kbps
			VBR/CBR	Supported/Supported
WAV	.wav	WAV	Sampling Frequency	32/44.1/48/88.2/96/176.4/192 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	5.1/5.0 (up to 96 kHz) **, 2
WMA	.wma	WMA2/7/8/9	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	5-320 kbps
			VBR/CBR	Supported/Supported
AAC	.m4a .aac .3gp .3g2	MPEG-4 AAC LC MPEG-4 HE AAC (aacPlus v 1/2)	Sampling Frequency	32/44.1/48 kHz
			Quantization Bit Rate	16 bit
			Channels	2
			Bit Rate	16-320 kbps
			VBR/CBR	Supported/Supported
Apple Lossless	.m4a .mp4	ALAC	Sampling Frequency	32/44.1/48/88.2/96 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	2
FLAC	.flac	FLAC	Sampling Frequency	32/44.1/48/88.2/96/176.4/192 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	5.1/5.0 (up to 96 kHz) **, 2
AIFF	.aif .aiff	AIFF	Sampling Frequency	32/44.1/48/88.2/96/176.4/192 kHz
			Quantization Bit Rate	16 bit/24 bit
			Channels	2
DSD**	.dff .dsf	DSDIFF DSF	Sampling Frequency	2.8224 MHz
			Quantization Bit Rate	1 bit
			Channels	2
via HDMI				
DSD Disc*** (SACD)	–	–	Sampling Frequency	2.8224 MHz
			Quantization Bit Rate	1 bit
			Channels	5.1**/2

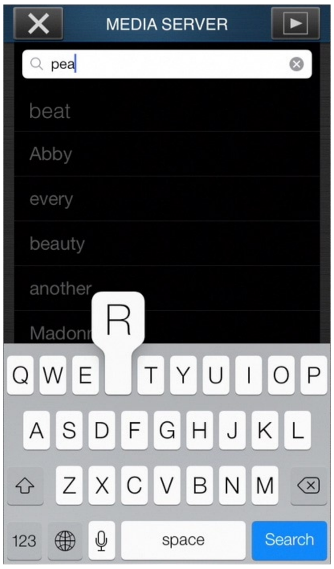
* MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson Multimedia
** Playback only. VSX-1124-K/VSX-1129-K only.
*** Playback only

Variable File Play Action

1124 1024 824 1129 1029

Various features to easily access and play your music library are available for the AV receivers. Using the remote control, you can fast forward/fast rewind during playback, and sort songs (alphabetical/track order). In addition to these operations, the new iControlAV5 app lets you search songs and albums. This feature works even if you don't remember the exact title.

Search Songs on iControlAV5



pea

Gapless Playback

1124 1024 824 1129 1029

Enjoy smooth, uninterrupted audio playback for WAV, FLAC, AIFF, AAC, MP3, and Apple Lossless files. The function is ideal for listening to music tracks intended for continuous play, such as classical music, progressive rock, concept albums, or live recordings.

*** Gapless playback only available for DLNA 2-Box Pull and USB memory playback. Not available for WAV/FLAC multi-channel streaming.**

Various Speaker Settings

1124 **1129**

In addition to the standard 7.1ch layout (Fig. 1), various speaker layout options are available with this year's AV receiver lineup. Combine front wide speakers (Fig. 2) with Pioneer-original Wide Surround mode to enjoy more spacious sound in the front. Or place front height speakers and use Dolby Pro Logic IIz (Fig. 3) for vertical-spreading sound.

Wide Surround Mode

1124 **1129**

Pioneer's Wide Surround Mode creates sound with highly dense motion feeling around the front and the sides. Wide Surround Movie provides motion feeling in front, while Wide Surround Music creates a wide-spreading sound field in the foreground.

Dolby Pro Logic IIz

1124 **1024** **1129** **1029**

Dolby Pro Logic IIz realizes more spacious surround sound by adding front height channels to the conventional 5.1ch/7.1ch speaker settings. The enveloping sound with additional depth and dimension creates a lifelike listening experience. Dolby Pro Logic IIz does not require special contents, and works with existing soundtracks.

DOLBY
PRO LOGIC IIz

Speaker Layout Examples

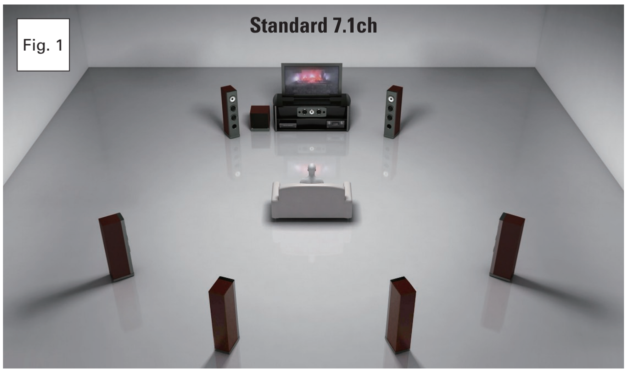


Fig. 1

Standard 7.1ch

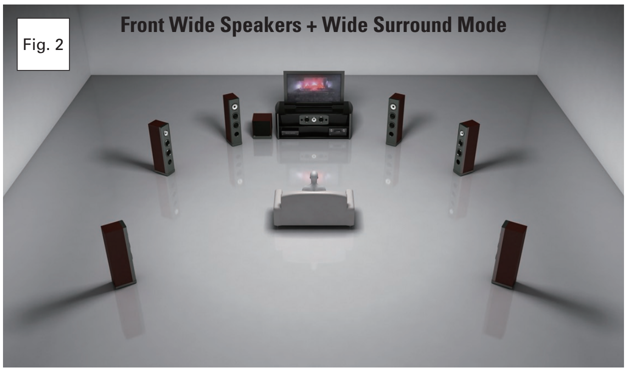


Fig. 2

Front Wide Speakers + Wide Surround Mode

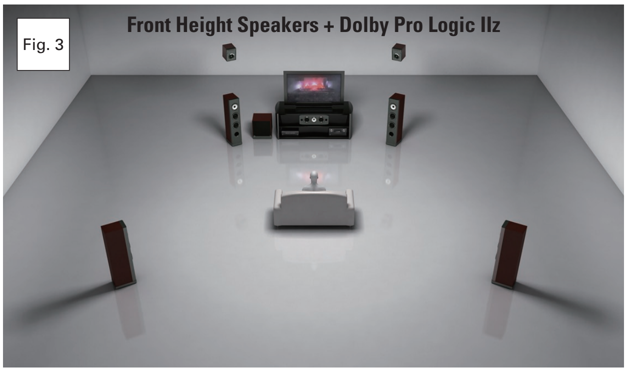


Fig. 3

Front Height Speakers + Dolby Pro Logic IIz

Virtual Speakers

1124 **1129**

Virtual Speakers

Pioneer's Virtual Speakers feature lets you enjoy full surround sound without placing extra speakers. By turning on Virtual Surround Back, Virtual Height, and Virtual Wide modes, you can experience virtual 11.1-channel sound from a 5.1-channel speaker setting. The sound field can be adjusted with intuitive control on your mobile device using the New iControlAV application.

Virtual Wide

Virtual Wide mode (Fig. 4) is a useful solution for creating the effects of front wide speakers, letting you enjoy surround sound in a rich sound field — all without placing extra speakers.

Virtual Height

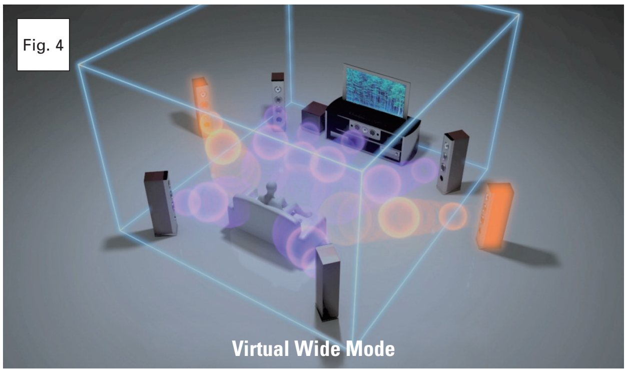
If you want to experience vertically falling sound but can not place front height speakers, there's a perfect solution. Pioneer's Virtual Height mode (Fig. 5) creates a height sound image without front height speakers, letting you enjoy enveloping virtual 7.1-channel sound from 5.1-channel speaker settings.

Virtual Surround Back

Want to be thrilled by surrounding sound from behind, but don't have the space for surround back speakers? Then try Virtual Surround Back mode (Fig. 6). It simulates 7.1-channel surround sound, giving the impression that you have surround back speakers when listening to a 5.1-channel source. What's more, by turning on both Virtual Height and Virtual Surround Back modes, you can enjoy virtual 9.1-channel sound on a 5.1-channel speaker setting. By adding front wide speakers, you can enjoy virtual 11.1-channel sound from a 7.1-channel speaker layout.

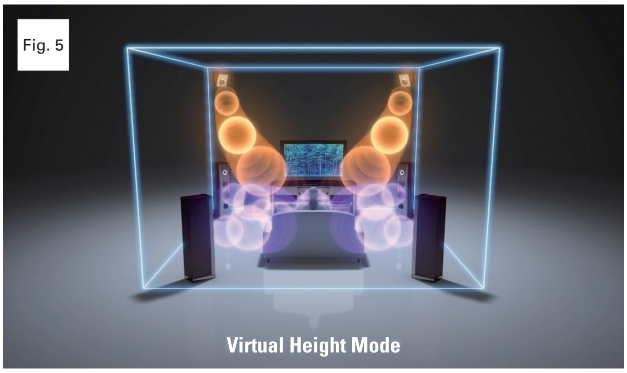
Speaker Layout Examples
Virtual speakers shown in orange

Fig. 4



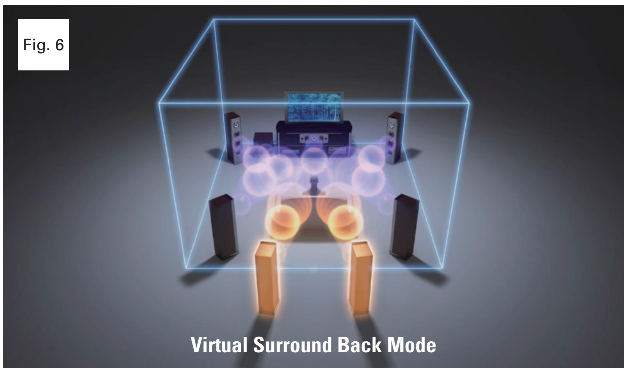
Virtual Wide Mode

Fig. 5



Virtual Height Mode

Fig. 6



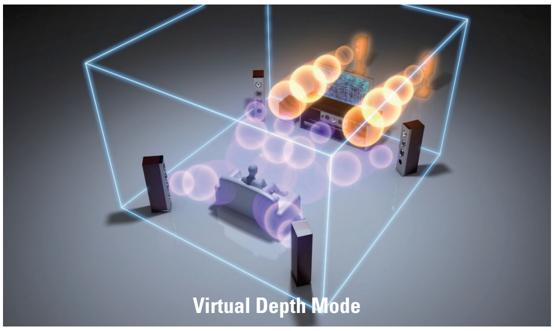
Virtual Surround Back Mode

Virtual Depth

1124 **1129**

Virtual Depth is a Pioneer-exclusive feature for creating a sound field behind the screen — a perfect match for 3D video content, for a lively synergy of sound and vision.

Virtual Depth



Advanced Surround Modes

1124 **1024** **824** **524** **1129** **1029**

The AV receivers feature 11+1* Advanced Surround Modes — Action, Drama, Advanced Game, Sports, Classical, Rock/Pop, Front Stage Surround, Extended Stereo, Sound Retriever AIR (see page 4 for details), ECO Mode 1, ECO Mode 2 + Phones Surround — for an optimized sound for your entertainment.

* 10+1 Modes for VSX-524-K, without Sound Retriever AIR

Front Stage Surround Advance

1124 **1024** **824** **524** **1129** **1029**

With Front Stage Surround Advance, you can enjoy surround sound coming from only the front speakers and the subwoofer. Since wall reflections are not used, the setup is less dependent on the room environment, allowing front alignment of the speakers. Front Stage Surround Advance creates an excellent sound image and natural sound.

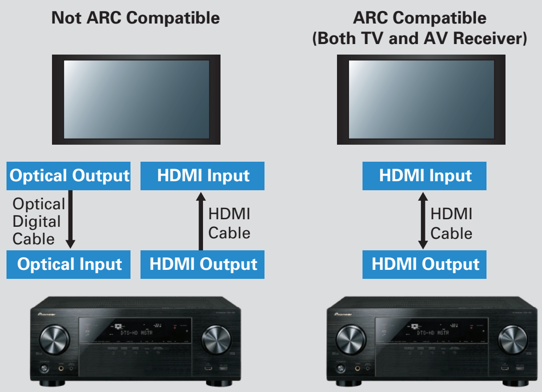
HDMI® (4K@60, 3D, ARC)

1124 1024 824 524 1129 1029

Pioneer's AV receivers feature HDMI with 3D technology. You can enjoy the latest 3D Blu-ray Discs, games, and broadcasts by combining the AV receivers with a 3D compatible Blu-ray Disc player, game console, or tuner (STB) and display via HDMI connection. The Audio Return Channel (ARC) feature allows a TV with built-in tuner to send audio data "upstream" to the AV receiver via HDMI — so there's no need for a separate audio cable. Enjoy full-digital transfer of high-definition audio as well as up to 4K/60p video signals by HDMI connection.

3D Compatible

ARC (Audio Return Channel)


Not ARC Compatible
ARC Compatible
(Both TV and AV Receiver)
Optical Output
HDMI Input
Optical Digital Cable
HDMI Cable
Optical Input
HDMI Output
HDMI Input
HDMI Cable
HDMI Output

With ARC, only one HDMI cable required

Made for iPod and iPhone

1124 1024 824 524 1129 1029

The latest AV receivers are certified "Made for iPod® and iPhone®" products, letting you enjoy music from your iPod/iPhone. The front terminal allows direct USB connection, providing battery charge for your devices.

* Available features depend on iPod/iPhone model
For details on iPod compatibility, visit
http://pioneer.jp/homeav/support/ios/na

iPod Digital Transmission via Front USB

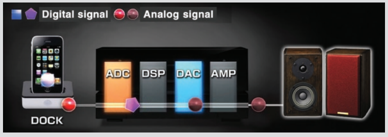
1124 1024 824 524 1129 1029

Enjoy iPod music via digital connection. The audio signals are directly transferred to the AV receiver's high-performance DAC, offering superior sound compared to analog connections. What's more, you can operate your iPod with the AV receiver's remote control.

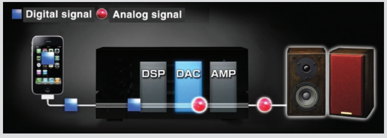
Functions such as the equalizer cannot be controlled using the pre-main amplifier or receiver, so we recommend you to turn off the equalizer before connecting. iPod is for legal or rightholder-authorised copying only. Don't steal music.

Connection Comparison

Analog Audio (previous)


Digital signal
Analog signal
DOCK
ADC
DSP
DAC
AMP

Digital Audio


Digital signal
Analog signal
DSP
DAC
AMP

Android Audio/Video Playback with MHL

1124 1024 824 1129 1029

One of the HDMI terminals is MHL (Mobile High-Definition Link) compatible, letting you connect an Android device with a MHL cable. High-definition video can be displayed on your HDTV with multi-channel sound, while also charging your device.

* MHL cable not included

Front USB Input

1124 1024 824 524 1129 1029

Connect a USB memory stick to the front USB and play various audio files (see page 11 for playable formats). You can also view JPEG pictures or watch a slideshow along with the music stored on the USB memory.

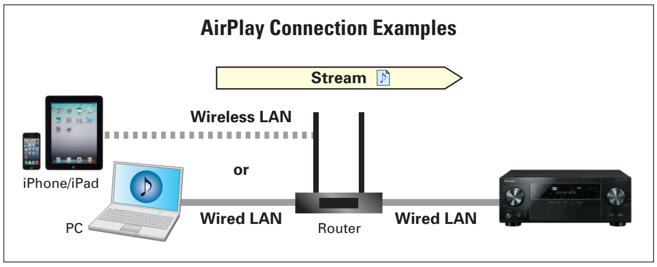
Apple AirPlay Certified

1124 1024 824 1129 1029

AirPlay — Enthusiasts have complete access, control and playback of their entire iTunes music library through their AV receiver. Users can quickly and easily enjoy all their music with song information and album art simultaneously displayed on a connected monitor/TV.

*** Available features depend on iPod/iPhone model. For details on iPod compatibility, visit**

http://pioneer.jp/homeav/support/ios/na


AirPlay Connection Examples
Stream
Wireless LAN
iPhone/iPad
or
PC
Wired LAN
Router
Wired LAN

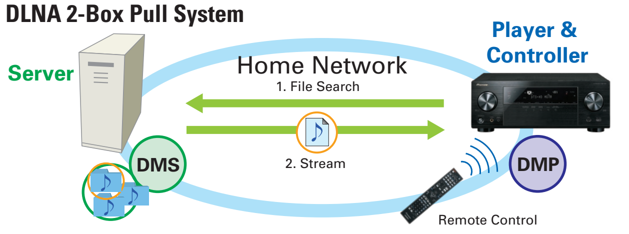
DLNA Certified™ (1.5)

1124 1024 824 1129 1029

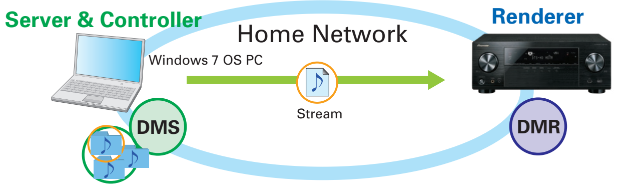
The AV receivers are DLNA certified (1.5), enabled to work not only as a Digital Media Player (2-Box Pull System) for playing DMS audio files, but also as a Digital Media Renderer (3-Box System) to be remotely controlled by a device such as a smartphone or PC/Mac. For example, you can play music content* from a PC/Mac in another room, from a separate device in your living room. As a DMR (2-Box Push System), the AV receiver can also play received audio data when the user controls the DMS. For details on playable formats, see chart on page 10.

*** Depending on file structure and server capacity, playback may not be available for certain files, including those listed as playable formats on page 10. Playback of DRM protected commercial content requiring DTCP-IP link protection is not supported.**

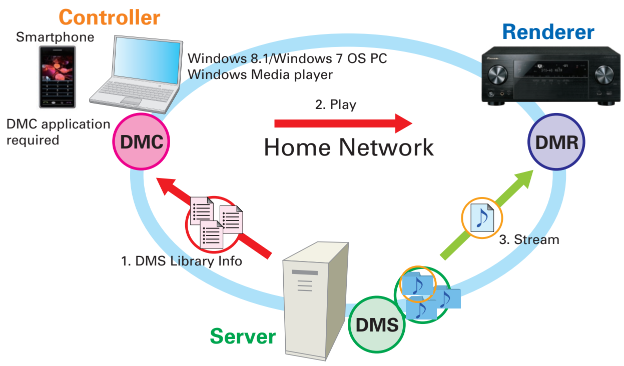
DLNA 2-Box Pull System


Server
Home Network
Player & Controller
1. File Search
2. Stream
DMS
DMP
Remote Control

DLNA 2-Box Push System


Server & Controller
Home Network
Renderer
Windows 7 OS PC
Stream
DMS
DMR

DLNA 3-Box System


Controller
Smartphone
Windows 8.1/Windows 7 OS PC
Windows Media player
Renderer
DMC application required
DMC
2. Play
Home Network
DMR
1. DMS Library Info
3. Stream
Server
DMS

Digital Media Server (DMS):
Stores and distributes content to DMP/DMR
Example: PC

Digital Media Player (DMP):
Finds and plays content on DMS
Example: TV, stereo/home theater, game console

Digital Media Controller (DMC):
Finds content on DMS for playback on DMR
Example: Internet tablet, Wi-Fi digital camera, PDA

Digital Media Renderer (DMR):
Plays content received from DMS, which finds content on DMS
Example: TV, AV receiver, remote speakers

HTC Connect™ Certified

1124 1024 824 1129 1029

Pioneer is the first leading partner to provide HTC Connect certified devices. Through wireless transmission, HTC Connect lets you easily stream high-quality audio from compatible devices such as Android phones, with no need for a separate app.

Compatible with Windows 8.1

1124 1024 824 1129 1029

The AV receivers are compatible with Windows 8.1, letting you easily stream music from compatible PCs on your home network.

Pandora® Internet Radio

1124 1024 824

Pandora is a personalized internet radio service with a recommendation feature. Pandora free account offers up to 40 hours of music per month. Paid subscriptions are also available. For details, visit www.pandora.com.

* Service only available in the U.S. as of January 2014.

Spotify® Digital Music-Streaming Service Ready

1124 1024 824

Enjoy on-demand access to millions of songs with Spotify's digital music-streaming service. With the wide range of music selection, you're sure to find a fitting song for your mood or occasion, right at your fingertips. You can make your own choice, or let Spotify surprise you. The AV receivers are ready for the Connect from Spotify, which lets you select songs on your Spotify app for listening on your audio system.

* Spotify App, iPhone/iPod touch/iPad, and subscription required.
For service availability in your country check www.spotify.com.
Firmware update may be necessary. For details, visit pioneer.eu/spotify

Roku Ready®

1124 1024 824 1129 1029

Just plug the separately sold Roku Streaming Stick™ into the MHL port to enjoy internet streaming of TV shows, sports, news, movies, music, and other entertainment. You can access hundreds of free channels, as well as on-demand content such as Netflix, Hulu Plus, Vudu, and Amazon Instant Video.

Internet Radio (vTuner)

1124 1024 824 1129 1029

The AV receivers come with the vTuner for listening to a multitude of radio programs from around the world on the internet. LAN connection allows radio access without having to use your PC/Mac. You can easily browse stations using the remote control. Various categories are available on the vTuner station list with over 30,000 stations, offering limitless entertainment. You can even add broadcast stations unavailable on the vTuner list. Access the Pioneer internet radio site from your PC/Mac*, and register the desired stations to your favorites list. Then, you can easily tune in to the radio stations from the AV receiver.

* Access code required

Ready for iControlAV5

1124 **1024** **824** **1129** **1029**

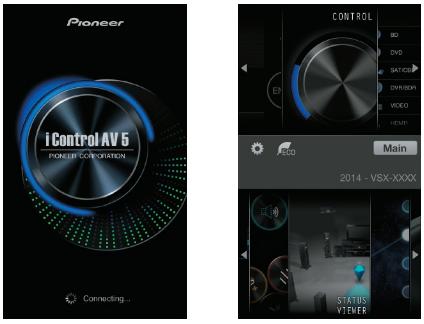
iControlAV5 is an iPod touch, iPhone and iPad application developed by Pioneer, freely downloadable from the App Store.

It is also compatible with Android, and available from Google Play. On a simple and intuitive interface, the application allows you to use your device as a remote for operating the AV receiver's functions such as VOLUME CONTROL, INPUT SELECT, LISTENING MODE, BALANCE, EMPHASIS CONTROL for woofer and center speakers, PUSH PLAYER, and ECO MANAGER. With the SOUND EXPLORER function, you can easily adjust various sound parameters in a fun and intuitive operation. You can also control the basic functions of Pioneer's Blu-ray Disc players.

The latest version comes with improved user interface and new features including the AV SCALER, new STATUS VIEWER, and CURSOR.

* AV receiver needs to be connected to a wired LAN in a wireless LAN network.

iControlAV5


Pioneer
iControl AV 5
PIONEER CORPORATION
Connecting...
CONTROL
BD
DVD
SAT/CBL
DVR/BDR
VIDEO
Main
ECO
2014 - VSX-XXXX
STATUS VIEWER

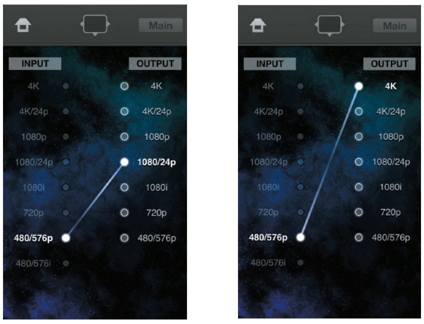
OPENING HOME

AV SCALER

1124 **1129**

The AV SCALER lets you easily select the input and output signals by drawing a line with your finger.

AV SCALER

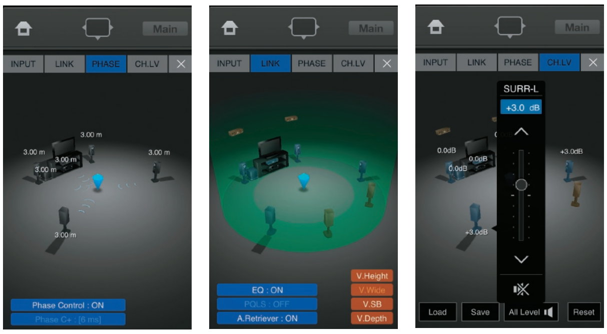

Main
INPUT
OUTPUT
4K
4K/24p
1080p
1080/24p
1080i
720p
480/576p
480/576i

STATUS VIEWER

1124 **1129**

The new STATUS VIEWER provides graphical display of input/output and status of the playing content, and the image of both real and virtual speakers. You can enjoy intuitive control for Input, Link, Phase, and Channel Level.

STATUS VIEWER

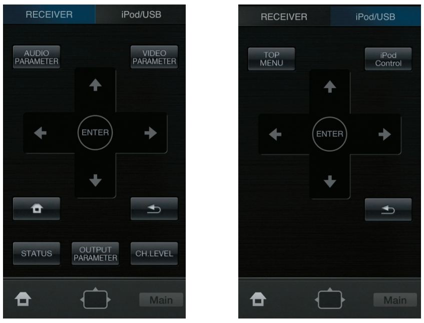

Main
INPUT
LINK
PHASE
CH.LV
3.00 m
Phase Control : ON
EQ : ON
PQLS : OFF
A.Retriever : ON
V.Height
V.Wide
V.SB
V.Depth
SURR-L
+3.0 dB
0.0dB
+3.0dB
Load
Save
All Level
Reset

CURSOR

1124 **1024** **824** **1129** **1029**

For the currently used function, up/down/left/right operations can be done on the app, instead of using the remote control. The button display changes to correspond to the function on the AV receiver.

CURSOR


RECEIVER
iPod/USB
AUDIO PARAMETER
VIDEO PARAMETER
TOP MENU
iPod Control
ENTER
STATUS
OUTPUT PARAMETER
CH LEVEL
Main

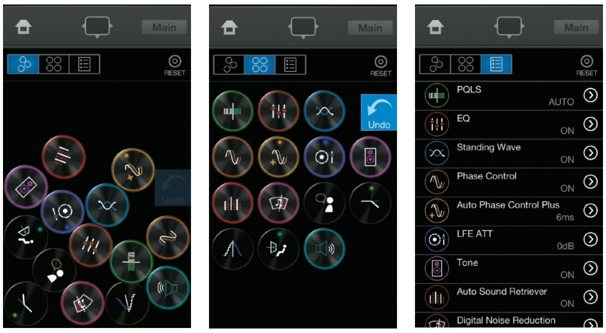
SOUND EXPLORER

1124 **1129**

SOUND EXPLORER lets you easily adjust various sound parameters with intuitive and pleasing operation. It comes in three operation modes. With Fixed Position mode, all icons are neatly positioned in rows. The screen on the playful Drop Icon mode displays continuously falling icons. All List mode shows the description and status for each setting, with a link to YouTube video clip explaining the feature.

* Adjustable sound parameters differ by model.

SOUND EXPLORER


Main
RESET
Undo

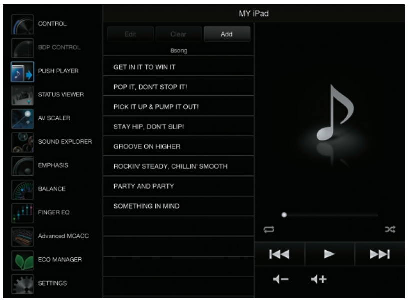
PQLS AUTO
EQ ON
Standing Wave ON
Phase Control ON
Auto Phase Control Plus 6ms
LFE ATT 0dB
Tone ON
Auto Sound Retriever ON
Digital Noise Reduction

PUSH PLAYER

1124 **1024** **824** **1129** **1029**

You can directly stream music stored on your device such as smartphone, for playback via the AV receiver.

PUSH PLAYER


CONTROL
BDP CONTROL
PUSH PLAYER
STATUS VIEWER
AV SCALER
SOUND EXPLORER
EMPHASIS
BALANCE
FINGER EQ
Advanced MCACC
ECO MANAGER
SETTINGS
MY iPad
Edit
Clear
Add

8song
GET IN IT TO WIN IT
POP IT, DON'T STOP IT!
PICK IT UP & PUMP IT OUT!
STAY HIP, DON'T SLIP!
GROOVE ON HIGHER
ROCKIN' STEADY, CHILLIN' SMOOTH
PARTY AND PARTY
SOMETHING IN MIND

ECO MANAGER

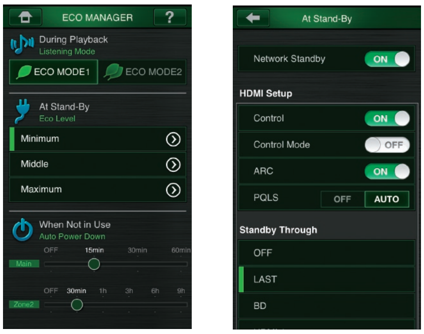
1124 **1024** **824** **1129** **1029**

ECO Mode

The feature is a dedicated page for energy efficient settings (During Playback/At Stand-By/When Not in Use) on your AV receiver. You can select ECO Mode 1 or 2 for playback settings.

ECO Mode 1 features moderate energy saving operation while maintaining high-quality sound, ideal for CD music, 2ch audio files, and internet radio. The higher energy-saving ECO Mode 2 features moderate sound quality, suitable for content with dynamic sound such as movies (multi-ch/2ch) or live concerts. The ECO Mode can also be accessed from the front panel or the remote control.

ECO MANAGER for iPhone


ECO MANAGER
?
During Playback
Listening Mode
ECO MODE1
ECO MODE2
At Stand-By
Eco Level
Minimum
Middle
Maximum
When Not in Use
Auto Power Down
OFF
15min
30min
60min
Main
OFF
30min
1h
3h
6h
9h
Zone2
At Stand-By
HDMI Setup
Standby Through
OFF
LAST
BD

Network Standby ON
Control ON
Control Mode OFF
ARC ON
PQLS OFF AUTO

Bluetooth® Ready

1124 **1024** **824** **1129** **1029**

By using the AS-BT200 optional *Bluetooth* adapter, you can enjoy wireless transmission of audio content from compatible devices such as iPod/iPod touch/iPhone/iPad (with iOS 3.0 or later), mobile phone, or personal computer.

Bluetooth
Pioneer
BLUETOOTH ADAPTER
AS-BT200

AS-BT200 Optional *Bluetooth* Adapter

– A2DP (Advanced Audio Distribution Profile)
– AVRCP (Audio Video Remote Control Profile)
– Registers up to 8 devices

Bluetooth®

Built-in AVNavigator

1124 **1129**

Pioneer's AVNavigator is a user-friendly support feature for the AV receiver's wiring and operation, including the Wiring Navi and Interactive Operation Guide. AVNavigator is now built-in, and you can easily set up the AV receiver straight out of the box on your PC/Mac/iPad/smartphone. The software will start up via Windows Explorer on a PC or Bonjour on a Mac. With an iOS or Android device, you can access the AVNavigator from the pre-installed iControlAV5 app.

* The AV receiver and the PC/Mac/iPad/smartphone need to be on the same home network. Control is also available via LAN cable connection with a PC/Mac.

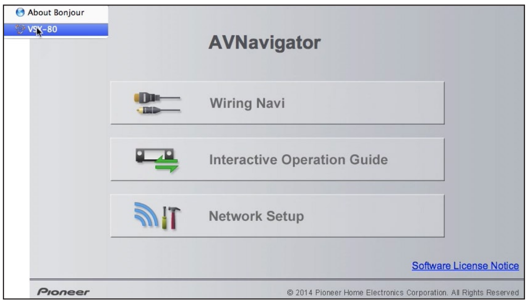
Wiring Navi

Start the Wiring Navi on the AVNavigator. By answering questions about your equipment and terminals, the actual connection image will be displayed. Plug in your equipment and speakers accordingly, including the network connection with your device then transmit the setup information to the AV receiver from your PC/Mac/iPad/smartphone.

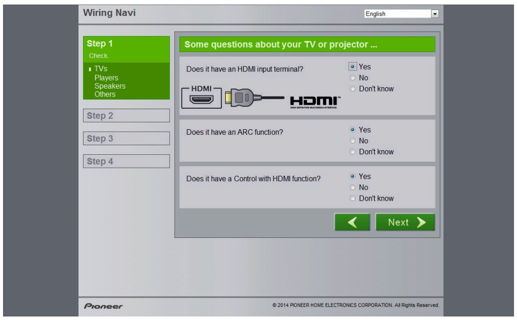
Interactive Operation Guide

After setup, you can check how to use the AV receiver with the Interactive Operation Guide. This new feature gives a quick tutorial on basic operations using illustrations and animations, allowing you to start right off without referring to the user manual. The Interactive Operation Guide can be browsed on your PC/Mac/iPad/smartphone, and you can send a command to the AV receiver. It also works the other way — key operation on the remote control or the main unit will display the corresponding manual page on your device.

AVNavigator Top Menu


About Bonjour
VSX-80
AVNavigator
Wiring Navi
Interactive Operation Guide
Network Setup
Software License Notice
Pioneer
© 2014 Pioneer Home Electronics Corporation. All Rights Reserved

Wiring Navi


Wiring Navi
English
Step 1
Check.
TVs
Players
Speakers
Others
Step 2
Step 3
Step 4
HDMI
HDMI
Next
Pioneer
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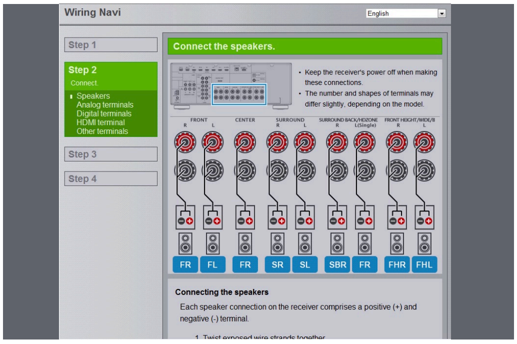
Some questions about your TV or projector ...

Does it have an HDMI input terminal? ● Yes ○ No ○ Don't know

Does it have an ARC function? ● Yes ○ No ○ Don't know

Does it have a Control with HDMI function? ● Yes ○ No ○ Don't know

Wiring Navi


Wiring Navi
English
Step 1
Step 2
Connect.
Speakers
Analog terminals
Digital terminals
HDMI terminal
Other terminals
Step 3
Step 4
FRONT
R
L
CENTER
SURROUND
R
L
SURROUND BACK/HDZONE
R
L(Single)
FRONT HEIGHT/WIDE/B
R
L
FR
FL
FR
SR
SL
SBR
FR
FHR
FHL

Connect the speakers.

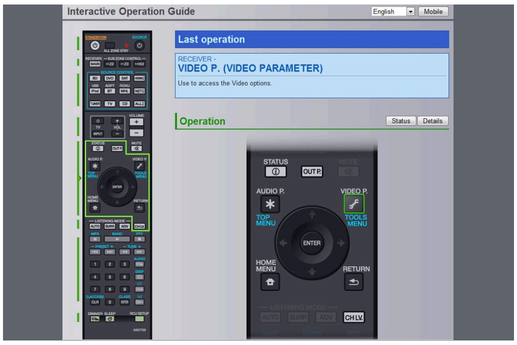
- Keep the receiver's power off when making these connections.
- The number and shapes of terminals may differ slightly, depending on the model.

Connecting the speakers

Each speaker connection on the receiver comprises a positive (+) and negative (-) terminal.

1. Twist exposed wire strands together

Interactive Operation Guide


Interactive Operation Guide
English
Mobile
Operation
Status
Details
STATUS
OUT P.
MUTE
AUDIO P.
VIDEO P.
TOP MENU
TOOLS MENU
ENTER
HOME MENU
RETURN
CH LV

Last operation

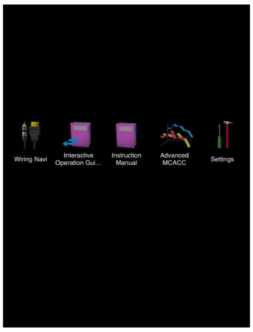
RECEIVER -
VIDEO P. (VIDEO PARAMETER)
Use to access the Video options.

AVNavigator for iPad

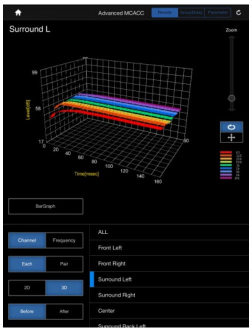
1124 **1129**

With Pioneer's AVNavigator for iPad app, in addition to the above mentioned Wiring Navi and Interactive Operation Guide, you can browse and save MCACC measurement data, as well as download the Instruction Manual on your iPad.

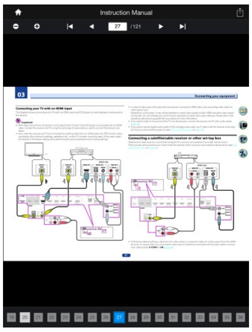
AVNavigator for iPad


Wiring Navi
Interactive Operation Gui...
Instruction Manual
Advanced MCACC
Settings

Top Menu


Advanced MCACC
Surround L
Zoom
ALL
Front Left
Front Right
Surround Left
Surround Right
Center

Advanced MCACC

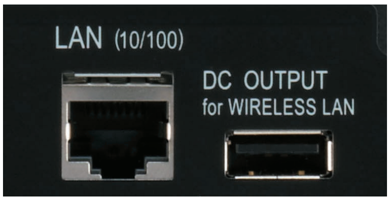

Instruction Manual

Instruction Manual

Wireless LAN Converter Ready

1124 1024 824 1129 1029

With the optional AS-WL300 wireless LAN converter, you can enjoy wireless LAN connection for the AV receivers. The AS-WL300 works with power supply from the AV receiver's dedicated USB terminal, so no AC adapter is required.


LAN (10/100)
DC OUTPUT
for WIRELESS LAN

Connection ports for AS-WL300

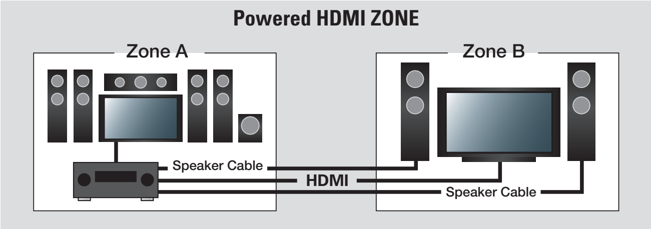
AS-WL300 optional LAN converter

Powered HDMI ZONE Out (Powered HDZONE)

1124 1129

The AV receivers are equipped with HDZONE HDMI output terminal, for streaming HD audio/video content to a separate room. If unused for HDZONE, the terminal can be used for MAIN ZONE OUT 2. The new powered feature* uses the built-in amplifier, so you can enjoy audio in HDZONE by just connecting speakers, with no need for a separate amplifier.

* Requires speaker setting HDZONE

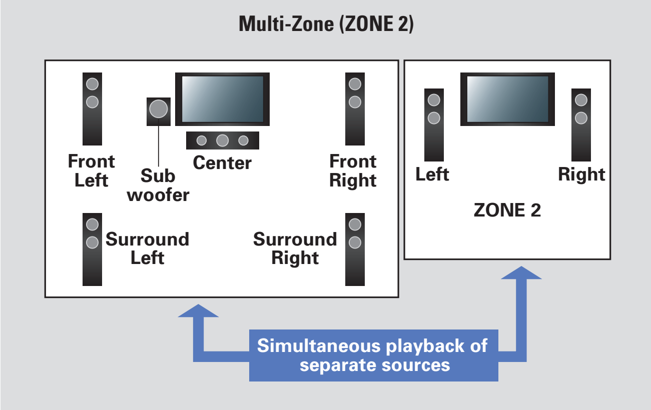

Powered HDMI ZONE
Zone A
Zone B
Speaker Cable
HDMI
Speaker Cable

Multi-Zone (ZONE 2)

1124 1024 1129 1029

With Pioneer's Multi-Zone, you can play music and movies from different sources in two zones at the same time.

* ZONE 2 analog audio only for VSX-1024-K/VSX-1029-K

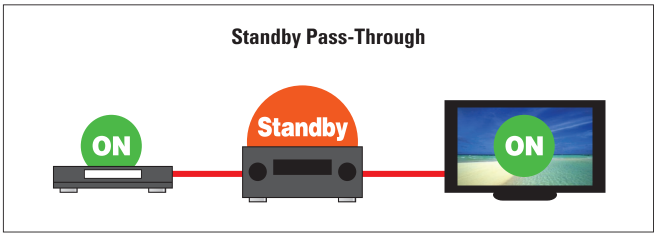

Multi-Zone (ZONE 2)
Front Left
Sub woofer
Center
Front Right
Surround Left
Surround Right
Left
Right
ZONE 2
Simultaneous playback of separate sources

Standby Pass-Through without CEC

1124 1024 824 524 1129 1029

With standby pass-through, the AV receiver can pass audio and video signals via HDMI even during standby. This feature is useful when you want to access HDMI-connected components without turning on the AV receiver. The input source can be switched on the remote control even during standby pass-through.

* Control with HDMI needs to be turned off


Standby Pass-Through
ON
Standby
ON

Auto Power Down

1124 1024 824 524 1129 1029

The AV receiver will automatically turn off after being left uncontrolled for a certain time set by the user. This function is available for each zone.

Power Save for HDMI Standby Through

1124 1024 824 524 1129 1029

Power Save for HDMI Standby Through reduces energy consumption while the AV receiver is on standby.

Feature Comparison

	VSX-1124-K	VSX-1024-K	VSX-824-K	VSX-524-K	VSX-1129-K	VSX-1029-K
Audio Technologies						
MCACC Auto Room Tuning	• (Advanced)	•	•	•	• (Advanced)	•
Phase Control	•	•	•	•	•	•
Auto Phase Control Plus	•				•	
Speaker Polarity Check	•				•	
Standing Wave Control	•				•	
Subwoofer EQ	•				•	
PQLS with HDMI (Bit-stream/Multi-Surround/2ch Audio)	•				•	
Advanced Sound Retriever	• (Multi-ch)	•	•	•	• (Multi-ch)	•
Auto Sound Retriever	•				•	
Auto Sound Retriever for ARC	•				•	
Sound Retriever AIR	•	•	•		•	•
Sound Retriever Link	•				•	
Auto Level Control	• (Multi-ch)	•	•	•	• (Multi-ch)	•
Hi-bit24 Audio Processing	•				•	
SABRE™ Premier Audio DAC	•				•	
Video Technologies						
Ultra HD (4K/60p) Upscaling	•				•	
Ultra HD (4K/60p) Pass-Through	•	•	•	•	•	•
Stream Smoother	•				•	
Stream Smoother Link	•				•	
Advanced Video Adjust	•				•	
Highly-Precise I/P Conversion	•				•	
Digital Video Converter	•				•	
Triple HD Video Noise Reduction	•				•	
Deep Color/"x.v.Color"	•	•	•	•	•	•
Audio Formats & Licenses						
Dolby TrueHD	•	•	•	•	•	•
Dolby TrueHD Loudness Management	•				•	
DTS-HD Master Audio	•	•			•	•
DTS-HD			•	•		
DTS Neo:X|7.1	•				•	
Hi-Res Audio File Playback via USB/Network	•				•	
Multi-channel Audio Playback via USB/Network	•				•	
Various Music File Playback via USB/Network/HDMI	•	•	•		•	•
Variable File Playback Action	•	•	•		•	•
Gapless Playback	•	•	•		•	•
Sophisticated Surround System						
Various Speaker Settings	•				•	
Wide Surround	•				•	
Dolby Pro Logic IIz	•	•			•	•
Virtual Speakers	•				•	
Virtual Depth	•				•	
Advanced Surround Modes	•	•	•	•	•	•
Front Stage Surround Advance	•	•	•	•	•	•
Connectivity						
HDMI® (4K@60, 3D, ARC)	•	•	•	•	•	•
Made for iPod and iPhone	•	•	•	•	•	•
iPod Digital Transmission via Front USB	•	•	•	•	•	•
Android™ Audio/Video Playback with MHL™	•	•	•		•	•
Front USB Input	•	•	•	•	•	•
Network Features						
Apple AirPlay Certified	•	•	•		•	•
DLNA Certified™ (1.5)	•	•	•		•	•
HTC Connect™ Certified	•	•	•		•	•
Compatible with Windows® 8.1	•	•	•		•	•
Pandora® Internet Radio	•	•	•			
Spotify® Digital Music-Streaming Service Ready	•	•	•			
Roku Ready®	•	•	•			
Internet Radio (vTuner)	•	•	•		•	•
Advanced Control						
Ready for iControlAV5 App	•	•	•		•	•
Bluetooth Ready	•	•	•		•	•
Built-in AVNavigator/AVNavigator for iPad	•				•	
Wireless LAN Converter Ready	•	•	•		•	•
Powered HDMI ZONE Out (Powered HDZONE)	•				•	
Multi-Zone	•	•			•	•
Standby Pass-Through without CEC	•	•	•	•	•	•
Auto Power Down	•	•	•	•	•	•
Power Save for HDMI Standby Through	•	•	•	•	•	•

Pioneer

Product Sheet

VSX-1124-K/CUXESM
VSX-1024-K/CUXESM
VSX-824-K/CUXESM
VSX-524K/CUXEVSM
VSX-1129-K/CUXE (Canada only)
VSX-1029-K/CUXE (Canada only)

VSX-1124-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Upscaling/Pass-through, DSD Playback via Network, Subwoofer EQ, Dual Subwoofer Preout, Built-in AVNavigator, Spotify® Ready and Roku Ready®

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 165 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 90 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD Master Audio/DTS-ES/DTS Neo:X I 7.1
- DSD Music File Playback via Network/USB (2.8 MHz)
- DSD Disc (SACD) Playback via HDMI (2.8 MHz)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- Hi-bit24 Audio Processing
- SABRE™ Premier Audio DAC (ES9006S) for 7.2ch
- HDMI Audio Return Channel (ARC)
- Pioneer Advanced MCACC Room Calibration
    - Phase Control
    - Auto Phase Control Plus/Phase Control Plus
    - Standing Wave Control
    - 3D Time Axis Measurement
    - Polarity Check
    - Automatic Crossover Detection
    - Reverb Before and After Calibration Results (AVNavigator for iPad)
    - Subwoofer EQ (4 Band)
- Pioneer Sound Enhancements
    - PQLS Bit-stream/Multi-Surround/2ch
    - Advanced Sound Retriever (Multi-ch)
    - Sound Retriever Link
    - Auto Sound Retriever/Auto Sound Retriever for ARC
    - Auto Level Control (Multi-ch)
    - Virtual Speakers (Wide/Height/Surround Back)
    - Virtual Depth
- Advanced Surround Modes
    - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
    - Front Stage Surround, Extended Stereo
    - Sound Retriever Air, Phones Surround
    - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 7 in/2 out (1 for MAIN, 1 for MAIN/HDZONE)
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Upscaling and Pass-through (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)
- Video Scaler with Qdeo™
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link
- Frame Rate Conversion

HOME NETWORK FEATURES

- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Windows® 8.1 Compatible
- Music File Playback/Seek*[1] via Network/USB: AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC, DSD
    - 192 kHz/24-Bit Audio playback (AIFF, WAV, FLAC)
    - Multi-Channel (5.1ch, 5.0ch) Audio Playback*[2] (WAV, FLAC)
- Gapless Playback for AIFF, Apple Lossless, WAV*[3], FLAC*[3], AAC, MP3
- Pandora® Internet Radio*[4]
- Spotify® Digital Music-Streaming Service Ready*[5]
- Roku Ready®*[6]
- Internet Radio with vTuner

CONVENIENCE FEATURES

- iPod Digital Transmission via Front USB Terminal
- Android™ Audio/Video Playback with MHL™
- Built-in AVNavigator (Wiring Navi, Interactive Operation Guide and Network Setup)
- HDMI ZONE Out (HDZONE) and Analog Audio Out (ZONE 2)
- Charges iPod/iPhone
- iControlAV5 Remote Control App Ready (iOS/Android)*[7]
- Wireless LAN Converter Ready (optional AS-WL300 required)
- *Bluetooth*® Adapter Ready (optional AS-BT200 required)
- Firmware Update via Internet or USB
- Graphical User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down for Each Zone
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

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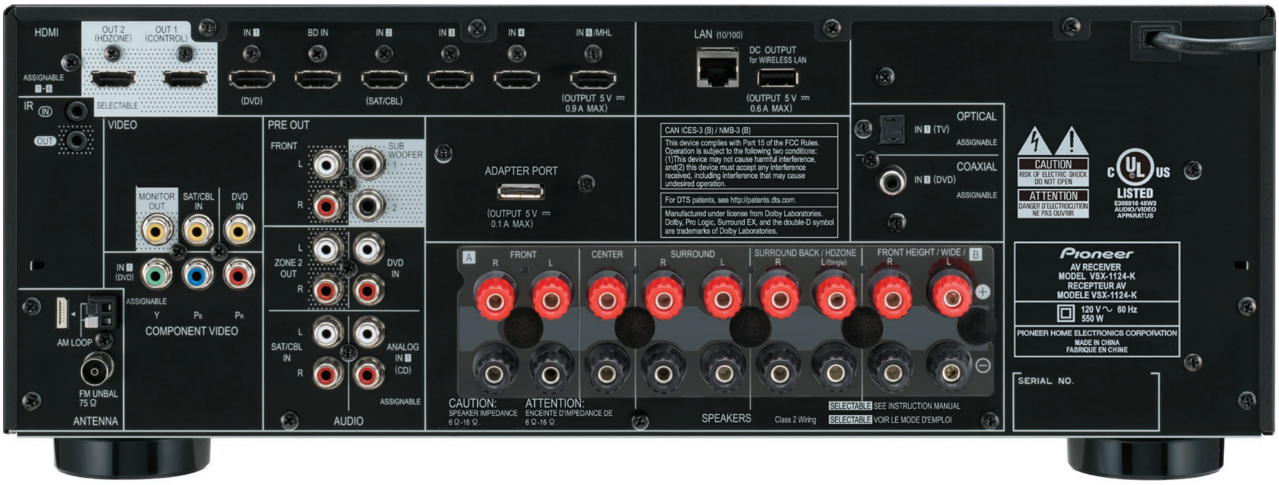
*[1] Except DSD files *[2] Up to 96 kHz streams *[3] Except multi-ch audio streaming *[4] Service only available in the U.S.
*[5] For service availability in your country, check www.spotify.com *[6] Separately sold Roku Streaming Stick™ required
*[7] Available for free download from the App Store℠/the Google Play™ Store

VSX-1124-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Upscaling/Pass-through, DSD Playback via Network, Subwoofer EQ, Dual Subwoofer Preout, Built-in AVNavigator, Spotify® Ready and Roku Ready®

CONNECTIONS

REAR PANEL



VSX-1124-K/CUXESM

5V ⎓ 1A
HDMI 5 INPUT

FRONT TERMINALS

- HDMI 1 in
- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 6 in
  (6 assignable, 1 for HDMI/MHL)
- HDMI 2 out
  (1 for MAIN, 1 for MAIN/HDZONE)
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Audio Preout
- Preout 2.2ch (Front L/R, SW x 2)
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, FH/FW/ Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless LAN Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby: 550 W/0.1 W
- Dimensions (W x H x D): 17-1/8 x 6-5/8 x 14-1/4 inches (435 x 168 x 362.5 mm)
- Weight: 21 lbs. 9 oz. (9.8 kg)

INTEGRATED TECHNOLOGIES

Direct Energy AMP
Surround Modes
Virtual Speakers
PQLS Bit-stream
Auto Phase Control Plus
Hi-bit 24 Processing
3D Compatible
4K/60p Ultra HD Upscaling
4K/60p Ultra HD Pass-through
Internet Radio
iControlAV5
AVNavigator
ECO Mode

Specifications and design subject to modification without notice.

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The impedances indicated are actual values that speakers can present to an amplifier while playing back music. They do not refer to the nominal rated impedances of speakers you use.

HDMI connection may not allow transmission of copyright protected material, depending on the capability of the signal source.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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Blu-ray Disc is a registered trademark of the Blu-ray Disc Association.

Windows and the Windows logo are trademarks of the Microsoft group of companies.

AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.

“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

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The AirPlay logo is a trademark of Apple Inc.

iOS is a trademark on which Cisco holds the trademark right in the US and certain other countries.

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“x.v.Color” is a trademark of Sony Corporation.

"Qdeo" is a trademark of Marvell or its affiliates.

SABRE™ is a trademark of ESS Technology, Inc.

Android and Google Play are trademarks of Google Inc.

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Spotify and the Spotify logo are trademarks of the Spotify Group, registered in the U.S. and other countries.

Roku and the Roku Ready logo are registered trademarks of Roku, Inc. in the United States and other countries.

vTuner is a registered trademark of Nothing Else Matters Software, Ltd.

Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.

For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/na/

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Note: Specifications and design subject to change without notice.

VSX-1024-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, Spotify® Ready and Roku Ready®

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 140 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 80 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD Master Audio/DTS-ES/DTS Neo:6
- DSD Disc (SACD) Playback via HDMI (2.8 MHz, 2ch)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel (ARC)
- Pioneer Auto MCACC Room Calibration
  - Phase Control
  - Automatic Crossover Detection
- Pioneer Sound Enhancements
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
- Advanced Surround Modes
  - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
  - Front Stage Surround, Extended Stereo
  - Sound Retriever Air, Phones Surround
  - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Pass-through (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)

HOME NETWORK FEATURES

- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Windows® 8.1 Compatible
- Music File Playback/Seek via Network/USB (AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC)
  - 192 kHz/24-Bit Audio playback (AIFF, WAV, FLAC)
- Gapless Playback for AIFF, Apple Lossless, WAV, FLAC, AAC, MP3
- Pandora® Internet Radio*[1]
- Spotify® Digital Music-Streaming Service Ready*[2]
- Roku Ready®*[3]
- Internet Radio with vTuner

CONVENIENCE FEATURES

- iPod Digital Transmission via Front USB Terminal
- Android™ Audio/Video Playback with MHL™
- Charges iPod/iPhone
- iControlAV5 Remote Control App Ready (iOS/Android)*[4]
- Powered ZONE 2 Audio
- Front Bi-Amp
- Firmware Update via USB (Network Module only)
- Wireless LAN Converter Ready (optional AS-WL300 required)
- *Bluetooth*® Adapter Ready (optional AS-BT200 required)
- Graphical User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 30 Presets
- Sleep Timer
- Remote Control

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*[1] Service only available in the U.S. *[2] For service availability in your country, check www.spotify.com
*[3] Separately sold Roku Streaming Stick™ required *[4] Available for free download from the App Store℠/the Google Play™ Store

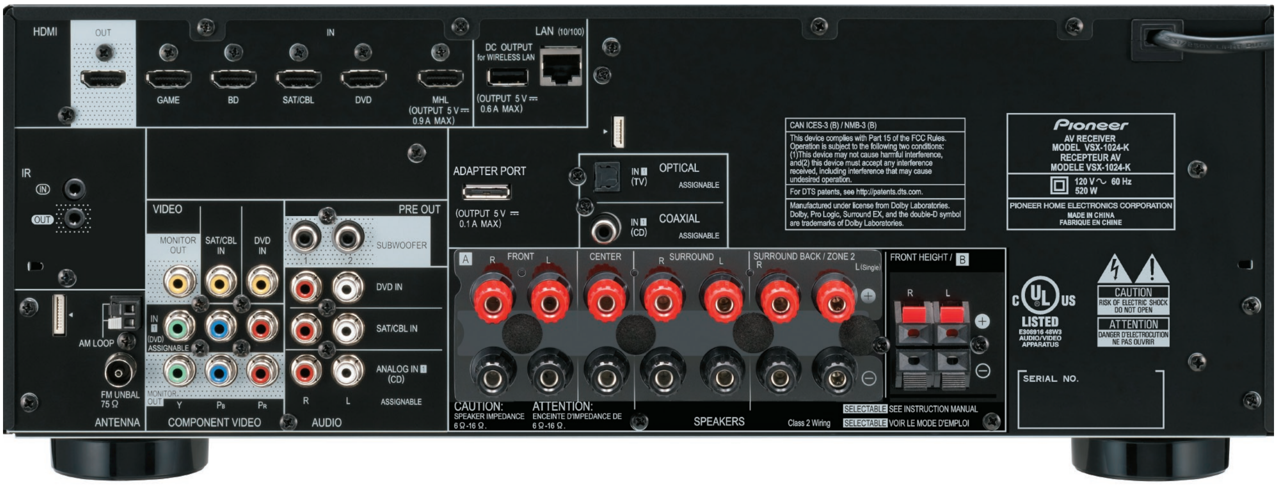
Pioneer

VSX-1024-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, Spotify® Ready and Roku Ready®

CONNECTIONS

REAR PANEL


HDMI
OUT
IN
GAME
BD
SAT/CBL
DVD
MHL (OUTPUT 5 V ⎓ 0.9 A MAX)
LAN (10/100)
DC OUTPUT for WIRELESS LAN
(OUTPUT 5 V ⎓ 0.6 A MAX)
IR
IN
OUT
ADAPTER PORT
(OUTPUT 5 V ⎓ 0.1 A MAX)
IN (TV) OPTICAL ASSIGNABLE
IN (CD) COAXIAL ASSIGNABLE
VIDEO
MONITOR OUT
SAT/CBL IN
DVD IN
PRE OUT
SUBWOOFER
DVD IN
SAT/CBL IN
ANALOG IN (CD)
ASSIGNABLE
AM LOOP
FM UNBAL 75 Ω
ANTENNA
COMPONENT VIDEO
AUDIO
A
FRONT
CENTER
SURROUND
SURROUND BACK / ZONE 2
FRONT HEIGHT / B
SPEAKERS
CAUTION: SPEAKER IMPEDANCE 6 Ω-16 Ω.
ATTENTION: ENCEINTE D'IMPEDANCE DE 6 Ω-16 Ω.
Class 2 Wiring
SELECTABLE SEE INSTRUCTION MANUAL
SELECTABLE VOIR LE MODE D'EMPLOI
Pioneer
AV RECEIVER MODEL VSX-1024-K
RECEPTEUR AV MODELE VSX-1024-K
120 V ∿ 60 Hz 520 W
PIONEER HOME ELECTRONICS CORPORATION
MADE IN CHINA
FABRIQUE EN CHINE
LISTED
CAUTION
ATTENTION
SERIAL NO.

VSX-1024-K/CUXESM

5 V ⎓ 1 A
HDMI INPUT

FRONT TERMINALS

- HDMI 1 in
- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 5 in (1 for HDMI/MHL)
- HDMI 1 out
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Component 1 out
- Monitor Composite 1 out
- Preout 0.2ch (SW x 2)
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, FH/FW/Speaker-B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless LAN Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby: 520 W/0.1 W
- Dimensions (W x H x D): 17-1/8 x 6-5/8 x 13-1/2 inches (435 x 168 x 342.5 mm)
- Weight: 20 lbs. 4 oz. (9.2 kg)

INTEGRATED TECHNOLOGIES

AirPlay
Made for iPod iPhone
DOLBY TRUEHD
DOLBY PRO LOGIC IIz
dts-HD Master Audio
HDMI
MHL
htc connect
dlna CERTIFIED
Windows 8 Compatible
PANDORA
Spotify
Roku ready
vTuner
MCACC

Direct Energy AMP
Surround Modes
3D Compatible
4K/60p Ultra HD Pass-through
Internet Radio
iControlAV5
ECO Mode

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Blu-ray Disc is a registered trademark of the Blu-ray Disc Association.
Windows and the Windows logo are trademarks of the Microsoft group of companies.
AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.
“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
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Roku and the Roku Ready logo are registered trademarks of Roku, Inc. in the United States and other countries.
vTuner is a registered trademark of Nothing Else Matters Software, Ltd.
Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.
For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/na/

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Note: Specifications and design subject to change without notice.

Pioneer

VSX-824-K

5.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, Spotify® Ready and Roku Ready®

Pioneer
AV RECEIVER VSX-824
INPUT SELECTOR
STANDBY/ON
PHONES
MCACC SETUP MIC
HDMI INPUT
MASTER VOLUME

Pioneer
RECEIVER

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 140 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 80 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic II/Dolby Digital Plus
- DTS-HD/DTS Neo:6
- DSD Disc (SACD) Playback via HDMI (2.8 MHz, 2ch)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel (ARC)
- Pioneer Auto MCACC Room Calibration
  - Phase Control
  - Automatic Crossover Detection
- Pioneer Sound Enhancements
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
- Advanced Surround Modes
  - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
  - Front Stage Surround, Extended Stereo
  - Sound Retriever Air, Phones Surround
  - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Pass-through (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)

HOME NETWORK FEATURES

- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Windows® 8.1 Compatible
- Music File Playback/Seek via Network/USB (AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC)
  - 192 kHz/24-Bit Audio playback (AIFF, WAV, FLAC)
- Gapless Playback for AIFF, Apple Lossless, WAV, FLAC, AAC, MP3
- Pandora® Internet Radio*[1]
- Spotify® Digital Music-Streaming Service Ready*[2]
- Roku Ready®*[3]
- Internet Radio with vTuner

CONVENIENCE FEATURES

- iPod Digital Transmission via Front USB Terminal
- Android™ Audio/Video Playback with MHL™
- Charges iPod/iPhone
- iControlAV5 Remote Control App Ready (iOS/Android)*[4]
- Wireless LAN Converter Ready (optional AS-WL300 required)
- *Bluetooth*® Adapter Ready (optional AS-BT200 required)
- Firmware Update via USB (Network Module only)
- Graphical User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 30 Presets
- Sleep Timer
- Remote Control

---

*[1] Service only available in the U.S.

*[2] For service availability in your country, check www.spotify.com

*[3] Separately sold Roku Streaming Stick™ required

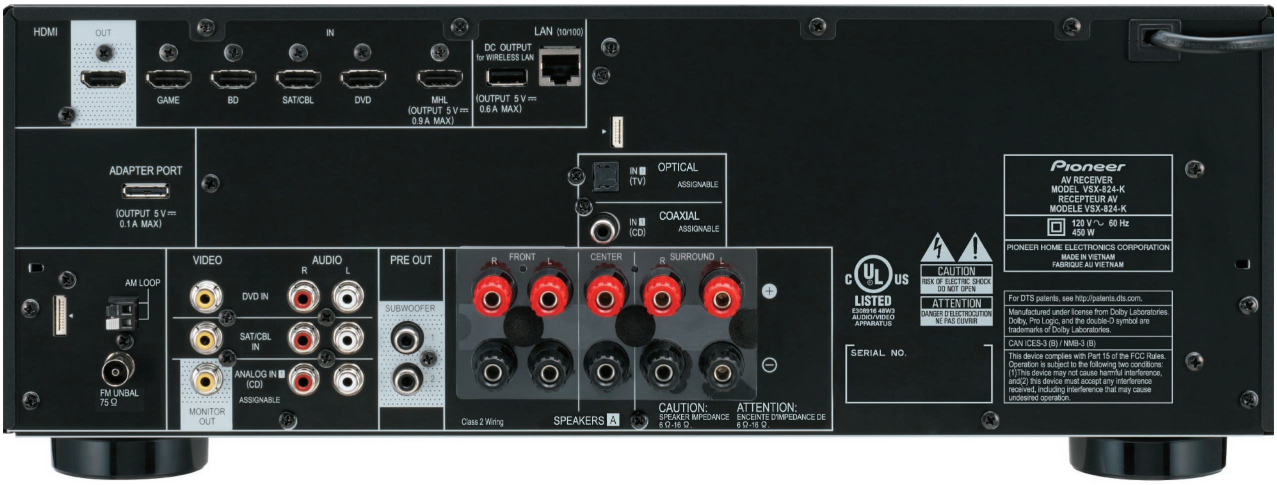
*[4] Available for free download from the App Store℠/the Google Play™ Store

VSX-824-K

5.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, Spotify® Ready and Roku Ready®

CONNECTIONS

REAR PANEL


HDMI
OUT
IN
GAME
BD
SAT/CBL
DVD
MHL (OUTPUT 5 V ⎓ 0.9 A MAX)
DC OUTPUT for WIRELESS LAN (OUTPUT 5 V ⎓ 0.6 A MAX)
LAN (10/100)
ADAPTER PORT (OUTPUT 5 V ⎓ 0.1 A MAX)
OPTICAL
IN (TV)
COAXIAL
IN (CD)
ASSIGNABLE
AM LOOP
FM UNBAL 75 Ω
VIDEO
AUDIO
DVD IN
SAT/CBL IN
ANALOG IN (CD)
MONITOR OUT
PRE OUT
SUBWOOFER
FRONT
CENTER
SURROUND
SPEAKERS A
Class 2 Wiring
CAUTION:
ATTENTION:
LISTED
SERIAL NO.
Pioneer AV RECEIVER MODEL VSX-824-K
120 V ~ 60 Hz 450 W
PIONEER HOME ELECTRONICS CORPORATION
MADE IN VIETNAM

VSX-824-K/CUXESM

5V ⎓ 1A
HDMI INPUT

FRONT TERMINALS

- HDMI 1 in
- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 5 in (1 for HDMI/MHL)
- HDMI 1 out
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 0.2ch (SW x 2)
- Speaker 5 ch out (FRONT, CENTER, SURROUND)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless LAN Converter

SPECIFICATIONS

- Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby: 450 W/0.1 W
- Dimensions (W x H x D): 17-1/8 x 6-5/8 x 13-1/16 inches (435 x 168 x 331.5 mm)
- Weight: 18 lbs. 11 oz. (8.6 kg)

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone

Windows 8 Compatible

Direct Energy AMP
Surround Modes
3D Compatible
4K/60p Ultra HD Pass-through
Internet Radio
iControlAV5
ECO Mode

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Blu-ray Disc is a registered trademark of the Blu-ray Disc Association.
Windows and the Windows logo are trademarks of the Microsoft group of companies.
AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.
"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
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Roku and the Roku Ready logo are registered trademarks of Roku, Inc. in the United States and other countries.
vTuner is a registered trademark of Nothing Else Matters Software, Ltd.
Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.
For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/na/

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Note: Specifications and design subject to change without notice.

VSX-524-K

5.1-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, MCACC Room Calibration, and Compatibility with iPod and iPhone

AMPLIFICATION

- Channels: 5
- Amplification Type: Direct Energy
- 140 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 80 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic II/Dolby Digital Plus
- DTS-HD/DTS Neo:6
- DSD Disc (SACD) Playback via HDMI (2.8 MHz, 2ch)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel (ARC)
- Pioneer Auto MCACC Room Calibration
    - Phase Control
    - Automatic Crossover Detection
- Pioneer Sound Enhancements
    - Advanced Sound Retriever (2ch)
    - Auto Level Control (2ch)
- Advanced Surround Modes
    - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
    - Front Stage Surround, Extended Stereo
    - Phones Surround
    - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 4 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Pass-through (4K/60p/4:2:0/24-bit, 4K/24p/4:4:4/24-bit, 4K/24p/4:2:2/36-bit)

CONVENIENCE FEATURES

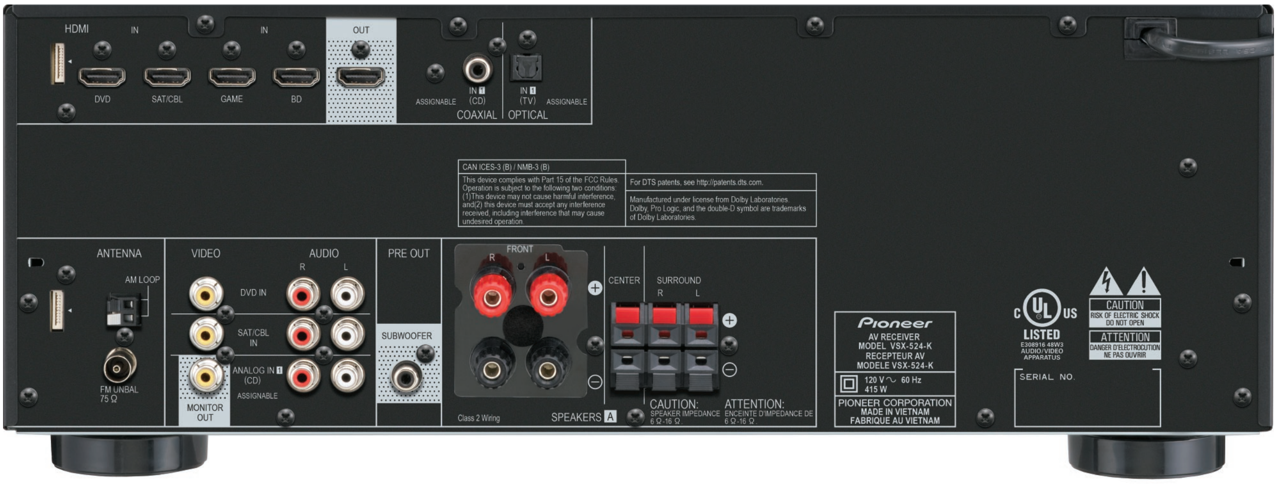
- iPod Digital Transmission via Front USB Terminal
- Charges iPod/iPhone
- Music File Playback via USB (MP3, WMA, AAC)
- On Screen Display (Analogue only)
- Auto Power Down
- AM/FM Tuner 30 Presets
- Power Save for HDMI Standby Through
- Sleep Timer
- Remote Control

VSX-524-K

5.1-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, MCACC Room Calibration, and Compatibility with iPod and iPhone

CONNECTIONS

REAR PANEL



VSX-524-K/CUXEVSM

FRONT TERMINALS

- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 4 in
- HDMI 1 out
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Monitor Composite 1 out
- Preout 0.1ch (SW)
- Speaker 5 ch out (FRONT, CENTER, SURROUND)

SPECIFICATIONS

- Power Requirements: AC 120 V, 60 Hz
- Power Consumption/Standby: 415 W/0.1 W
- Dimensions (W x H x D): 17-1/8 x 6-5/8 x 13-1/16 inches (435 x 168 x 331.5 mm)
- Weight: 18 lbs. 4 oz. (8.3 kg)

INTEGRATED TECHNOLOGIES

Made for iPod iPhone

DOLBY TRUEHD · dts-HD · HDMI · MCACC

Direct Energy AMP · Surround Modes · 3D Compatible · 4K/60p Ultra HD Pass-through · ECO Mode

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HTC, the HTC logo, and HTC Connect are trademarks of HTC Corporation.
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Phase Control is a trademark placed on a product with Pioneer's Phase Control Technology concept. The technology enables high-grade sound reproduction environment by improving the phase matching for each of the components.
For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/na/

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Pioneer

VSX-1129-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Upscaling/Pass-through, DSD Playback via Network, Subwoofer EQ, Dual Subwoofer Preout, Built-in AVNavigator, and Roku Ready®

Pioneer
AV RECEIVER VSX-1129
DTS-HD MSTR
Pioneer
RECEIVER

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 165 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 90 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD Master Audio/DTS-ES/DTS Neo:X I 7.1
- DSD Music File Playback via Network/USB (2.8 MHz)
- DSD Disc (SACD) Playback via HDMI (2.8 MHz)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- Hi-bit24 Audio Processing
- SABRE™ Premier Audio DAC (ES9006S) for 7.2ch
- HDMI Audio Return Channel (ARC)
- Pioneer Advanced MCACC Room Calibration
  - Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - Standing Wave Control
  - 3D Time Axis Measurement
  - Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (AVNavigator for iPad)
  - Subwoofer EQ (4 Band)
- Pioneer Sound Enhancements
  - PQLS Bit-stream/Multi-Surround/2ch
  - Advanced Sound Retriever (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Auto Level Control (Multi-ch)
  - Virtual Speakers (Wide/Height/Surround Back)
  - Virtual Depth
- Advanced Surround Modes
  - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
  - Front Stage Surround, Extended Stereo
  - Sound Retriever Air, Phones Surround
  - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 7 in/2 out (1 for MAIN, 1 for MAIN/HDZONE)
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Upscaling and Pass-through (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)
- Video Scaler with Qdeo™
- Video Conversion to HDMI
- Triple HD Noise Reduction
- Advanced Video Adjust
- Stream Smoother
- Stream Smoother Link
- Frame Rate Conversion

HOME NETWORK FEATURES

- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Windows® 8.1 Compatible
- Music File Playback/Seek*[1] via Network/USB: AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC, DSD
  - 192 kHz/24-Bit Audio playback (AIFF, WAV, FLAC)
  - Multi-Channel (5.1ch, 5.0ch) Audio Playback*[2] (WAV, FLAC)
- Gapless Playback for AIFF, Apple Lossless, WAV*[3], FLAC*[3], AAC, MP3
- Roku Ready®*[4]
- Internet Radio with vTuner

CONVENIENCE FEATURES

- iPod Digital Transmission via Front USB Terminal
- Android™ Audio/Video Playback with MHL™
- Built-in AVNavigator (Wiring Navi, Interactive Operation Guide and Network Setup)
- HDMI ZONE Out (HDZONE) and Analog Audio Out (ZONE 2)
- Charges iPod/iPhone
- iControlAV5 Remote Control App Ready (iOS/Android)*[5]
- Wireless LAN Converter Ready (optional AS-WL300 required)
- *Bluetooth*® Adapter Ready (optional AS-BT200 required)
- Firmware Update via Internet or USB
- Graphical User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down for Each Zone
- Power Save for HDMI Standby Through
- AM/FM Tuner 63 Presets
- Sleep Timer
- Learning Remote Control (Luminous)

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*[1] Except DSD files *[2] Up to 96 kHz streams *[3] Except multi-ch audio streaming *[4] Separately sold Roku Streaming Stick™ required
*[5] Available for free download from the App Store℠/the Google Play™ Store

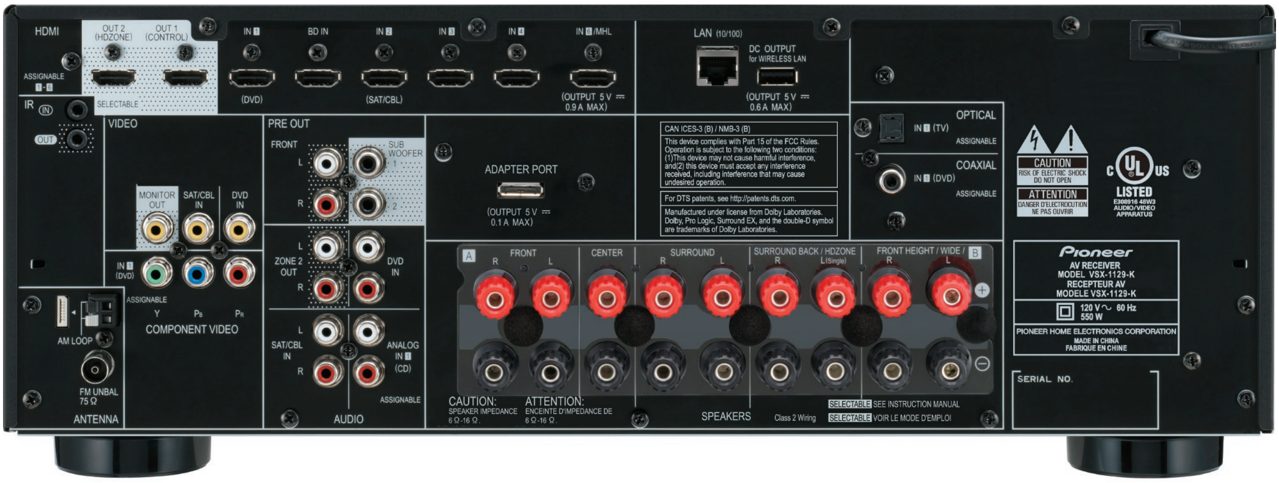
Pioneer

VSX-1129-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Upscaling/Pass-through, DSD Playback via Network, Subwoofer EQ, Dual Subwoofer Preout, Built-in AVNavigator, and Roku Ready®

CONNECTIONS

REAR PANEL


HDMI
OUT 2 (HDZONE)
OUT 1 (CONTROL)
IN 1
BD IN
IN 2
IN 3
IN 4
IN 5/MHL
(DVD)
(SAT/CBL)
(OUTPUT 5 V ⎓ 0.9 A MAX)
LAN (10/100)
DC OUTPUT for WIRELESS LAN
(OUTPUT 5 V ⎓ 0.6 A MAX)
ASSIGNABLE
SELECTABLE
IR
IN
OUT
VIDEO
MONITOR OUT
SAT/CBL IN
DVD IN
PRE OUT
FRONT
SUBWOOFER
ZONE 2 OUT
SAT/CBL IN
ANALOG IN 1 (CD)
AUDIO
ADAPTER PORT
(OUTPUT 5 V ⎓ 0.1 A MAX)
OPTICAL
IN 1 (TV)
COAXIAL
IN 1 (DVD)
COMPONENT VIDEO
Y
PB
PR
AM LOOP
FM UNBAL 75 Ω
ANTENNA
FRONT
CENTER
SURROUND
SURROUND BACK / HDZONE
FRONT HEIGHT / WIDE / B
SPEAKERS
CAUTION
ATTENTION
Pioneer
AV RECEIVER
MODEL VSX-1129-K
120 V ~ 60 Hz
550 W
PIONEER HOME ELECTRONICS CORPORATION
MADE IN CHINA
SERIAL NO.

VSX-1129-K/CUXE

5V⎓1A
HDMI 5 INPUT

FRONT TERMINALS

- HDMI 1 in
- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 6 in
  (6 assignable, 1 for HDMI/MHL)
- HDMI 2 out
  (1 for MAIN, 1 for MAIN/HDZONE)
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- ZONE 2 Audio Preout
- Preout 2.2ch (Front L/R, SW x 2)
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, FH/FW/Speaker B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless LAN Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby:
  550 W/0.1 W
- Dimensions (W x H x D):
  17-1/8 x 6-5/8 x 14-1/4 inches
  (435 x 168 x 362.5 mm)
- Weight: 21 lbs. 9 oz. (9.8 kg)

INTEGRATED TECHNOLOGIES

AirPlay
Made for iPod iPhone
DOLBY TRUEHD
DOLBY PRO LOGIC IIz
dts-HD Master Audio
dts Neo:X | 7.1
SABRE DAC
HDMI
MHL
htc connect
dlna CERTIFIED
Windows 8 Compatible
Roku ready
vTuner
MCACC advanced

Direct Energy AMP
Surround Modes
Virtual Speakers
PQLS Bit-stream
Auto Phase Control Plus
Hi-bit 24 Processing
3D Compatible
4K/60p Ultra HD Upscaling
4K/60p Ultra HD Pass-through
Internet Radio
iControlAV5
AVNavigator
ECO Mode

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AirPlay works with iPhone, iPad, and iPod touch with iOS 4.3.3 or later, Mac with OS X Mountain Lion, and Mac and PC with iTunes 10.2.2 or later.
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For details on iPod compatibility, visit http://pioneer.jp/homeav/support/ios/na/

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VSX-1029-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, and Roku Ready®

AMPLIFICATION

- Channels: 7
- Amplification Type: Direct Energy
- 140 W/ch (6 ohms 1 kHz THD 1.0 % 1ch Driven)
- 80 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

AUDIO FEATURES

- Dolby® TrueHD/Dolby Pro Logic IIz/Dolby Digital Plus
- DTS-HD Master Audio/DTS-ES/DTS Neo:6
- DSD Disc (SACD) Playback via HDMI (2.8 MHz)
- Digital Core Engine with Texas Instruments Aureus™ DSP
- 192 kHz/24-bit DAC
- HDMI Audio Return Channel (ARC)
- Pioneer Auto MCACC Room Calibration
  - Phase Control
  - Automatic Crossover Detection
- Pioneer Sound Enhancements
  - Advanced Sound Retriever (2ch)
  - Auto Level Control (2ch)
- Advanced Surround Modes
  - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
  - Front Stage Surround, Extended Stereo
  - Sound Retriever Air, Phones Surround
  - ECO Mode 1, ECO Mode 2

VIDEO FEATURES

- HDMI 6 in/1 out
- 3D Ready (Blu-ray Disc®, Broadcast, and Games)
- Deep Color (36-bit), "x.v. Color"
- Ultra HD Pass-through (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)

HOME NETWORK FEATURES

- Apple AirPlay Certified
- DLNA Certified™ (1.5)
- HTC Connect™ Certified
- Windows® 8.1 Compatible
- Music File Playback/Seek via Network/USB (AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC)
  - 192 kHz/24-Bit Audio playback (AIFF, WAV, FLAC)
- Gapless Playback for AIFF, Apple Lossless, WAV, and FLAC, AAC, MP3
- Roku Ready®*[1]
- Internet Radio with vTuner

CONVENIENCE FEATURES

- iPod Digital Transmission via Front USB Terminal
- Android™ Audio/Video Playback with MHL™
- Charges iPod/iPhone
- iControlAV5 Remote Control App Ready (iOS/Android)*[2]
- Powered ZONE 2 Audio
- Front Bi-Amp
- Firmware Update via USB (Network Module only)
- Wireless LAN Converter Ready (optional AS-WL300 required)
- *Bluetooth*® Adapter Ready (optional AS-BT200 required)
- Graphical User Interface (GUI) with Album Artwork (HDMI only)
- Auto Power Down
- Power Save for HDMI Standby Through
- AM/FM Tuner 30 Presets
- Sleep Timer
- Preset Remote Control

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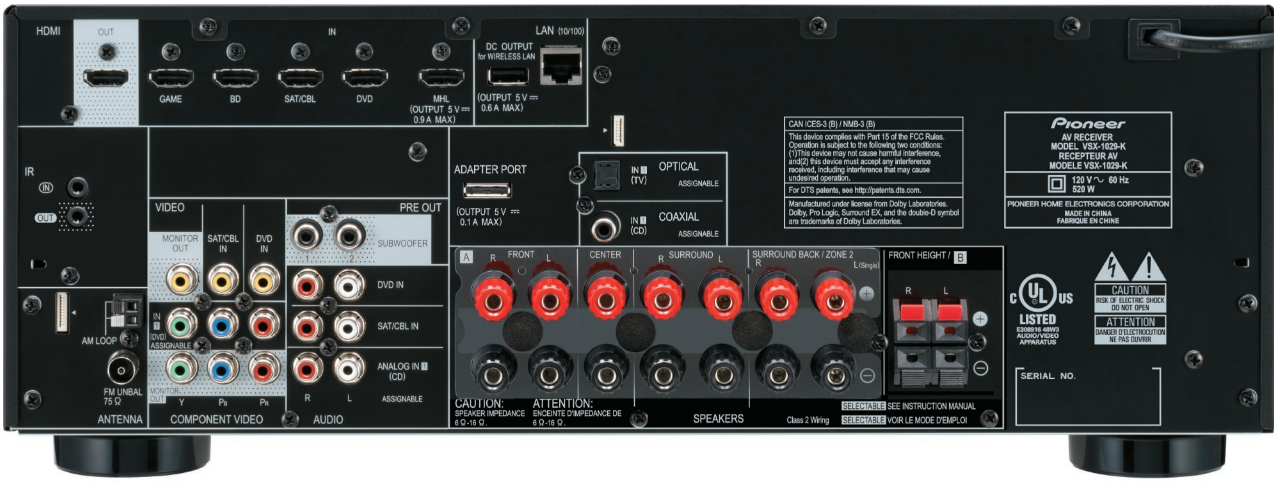
*[1] Separately sold Roku Streaming Stick™ required *[2] Available for free download from the App Store℠/the Google Play™ Store

VSX-1029-K

7.2-Channel AV Receiver with Ultra HD (4K/60p) Pass-through, Gapless Playback, Dual Subwoofer Preout, and Roku Ready®

CONNECTIONS

REAR PANEL


HDMI
OUT
IN
GAME
BD
SAT/CBL
DVD
MHL (OUTPUT 5 V ⎓ 0.9 A MAX)
LAN (10/100)
DC OUTPUT for WIRELESS LAN (OUTPUT 5 V ⎓ 0.6 A MAX)
IR
IN
OUT
ADAPTER PORT (OUTPUT 5 V ⎓ 0.1 A MAX)
OPTICAL IN 1 (TV) ASSIGNABLE
COAXIAL IN 1 (CD) ASSIGNABLE
VIDEO
MONITOR OUT
SAT/CBL IN
DVD IN
PRE OUT
SUBWOOFER
1
2
DVD IN
SAT/CBL IN
ANALOG IN 1 (CD)
ASSIGNABLE
IN 1 (DVD) ASSIGNABLE
MONITOR OUT
Y
PB
PR
R
L
AM LOOP
FM UNBAL 75 Ω
ANTENNA
COMPONENT VIDEO
AUDIO
A
FRONT
CENTER
SURROUND
SURROUND BACK / ZONE 2
L (Single)
FRONT HEIGHT / B
CAUTION: SPEAKER IMPEDANCE 6 Ω-16 Ω.
ATTENTION: ENCEINTE D'IMPEDANCE DE 6 Ω-16 Ω.
SPEAKERS
Class 2 Wiring
SELECTABLE SEE INSTRUCTION MANUAL
SELECTABLE VOIR LE MODE D'EMPLOI
CAN ICES-3 (B) / NMB-3 (B)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and(2) this device must accept any interference received, including interference that may cause undesired operation.
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Pioneer
AV RECEIVER
MODEL VSX-1029-K
RECEPTEUR AV
MODELE VSX-1029-K
120 V ∿ 60 Hz
520 W
PIONEER HOME ELECTRONICS CORPORATION
MADE IN CHINA
FABRIQUE EN CHINE
c UL us LISTED
E308916 48W3
AUDIO/VIDEO APPARATUS
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
ATTENTION
DANGER D'ELECTROCUTION NE PAS OUVRIR
SERIAL NO.

VSX-1029-K/CUXE

5 V ⎓ 1 A
HDMI INPUT

FRONT TERMINALS

- HDMI 1 in
- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

REAR TERMINALS

- HDMI 5 in (1 for HDMI/MHL)
- HDMI 1 out
- Ethernet 1 in
- AV (Composite) 2 in
- Audio 1 in (assignable)
- Digital Coaxial 1 in (assignable)
- Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Component 1 out
- Monitor Composite 1 out
- Preout 0.2ch (SW x 2)
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, FH/FW/Speaker-B)
- *Bluetooth* Adapter Port for AS-BT200
- USB Charge Port for AS-WL300 Wireless LAN Converter
- IR 1 in/1 out

SPECIFICATIONS

- Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby: 520 W/0.1 W
- Dimensions (W x H x D): 17-1/8 x 6-5/8 x 13-1/2 inches (435 x 168 x 342.5 mm)
- Weight: 20 lbs. 4 oz. (9.2 kg)

INTEGRATED TECHNOLOGIES

AirPlay

Made for iPod iPhone

DOLBY TRUEHD

DOLBY PRO LOGIC IIz

dts-HD Master Audio

HDMI

MHL

htc connect

dlna CERTIFIED

Windows 8 Compatible

Roku ready

vTuner

MCACC

Direct Energy AMP

Surround Modes

3D Compatible

4K/60p Ultra HD Pass-through

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iControlAV5

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